

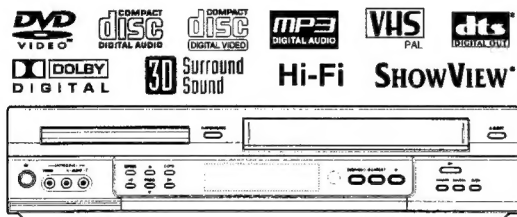


DVD-VCR SERVICE MANUAL

MODEL : DVS7800 (V780NSK)

CAUTION

BEFORE SERVICING THE UNIT, READ THE "SAFETY PRECAUTIONS"
IN THIS MANUAL.



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SECTION 1

SUMMARY

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PRODUCT SAFETY SERVICING GUIDELINES FOR VIDEO PRODUCTS

CAUTION : DO NOT ATTEMPT TO MODIFY THIS PRODUCT IN ANY WAY. NEVER PERFORM CUSTOMIZED INSTALLATIONS WITHOUT MANUFACTURER'S APPROVAL. UNAUTHORIZED MODIFICATIONS WILL NOT ONLY VOID THE WARRANTY, BUT MAY LEAD TO YOUR BEING LIABLE FOR ANY RESULTING PROPERTY DAMAGE OR USER INJURY.

SERVICE WORK SHOULD BE PERFORMED ONLY AFTER YOU ARE THOROUGHLY FAMILIAR WITH ALL OF THE FOLLOWING SAFETY CHECKS AND SERVICING GUIDELINES. TO DO OTHERWISE, INCREASES THE RISK OF POTENTIAL HAZARDS AND INJURY TO THE USER.

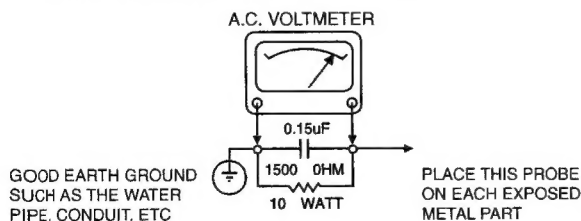
WHILE SERVICING, USE AN ISOLATION TRANSFORMER FOR PROTECTION FROM A.C. LINE SHOCK.

SAFETY CHECKS

AFTER THE ORIGINAL SERVICE PROBLEM HAS BEEN CORRECTED, A CHECK SHOULD BE MADE OF THE FOLLOWING.

SUBJECT : FIRE & SHOCK HAZARD

1. BE SURE THAT ALL COMPONENTS ARE POSITIONED IN SUCH A WAY AS TO AVOID POSSIBILITY OF ADJACENT COMPONENT SHORTS. THIS IS ESPECIALLY IMPORTANT ON THOSE MODULES WHICH ARE TRANSPORTED TO AND FROM THE REPAIR SHOP.
2. NEVER RELEASE A REPAIR UNLESS ALL PROTECTIVE DEVICES SUCH AS INSULATORS, BARRIERS, COVERS, SHIELDS, STRAIN RELIEFS, POWER SUPPLY CORDS, AND OTHER HARDWARE HAVE BEEN REINSTALLED PER ORIGINAL DESIGN. BE SURE THAT THE SAFETY PURPOSE OF THE POLARIZED LINE PLUG HAS NOT BEEN DEFEATED.
3. SOLDERING MUST BE INSPECTED TO DISCOVER POSSIBLE COLD SOLDER JOINTS, SOLDER SPLASHES OR SHARP SOLDER POINTS. BE CERTAIN TO REMOVE ALL LOOSE FOREIGN PARTICLES.
4. CHECK FOR PHYSICAL EVIDENCE OF DAMAGE OR DETERIORATION TO PARTS AND COMPONENTS. FOR FRAYED LEADS, DAMAGED INSULATION (INCLUDING A.C. CORD), AND REPLACE IF NECESSARY FOLLOW ORIGINAL LAYOUT, LEAD LENGTH AND DRESS.
5. NO LEAD OR COMPONENT SHOULD TOUCH A RECEIVING TUBE OR A RESISTOR RATED AT 1 WATT OR MORE. LEAD TENSION AROUND PROTRUDING METAL SURFACES MUST BE AVOIDED.
6. ALL CRITICAL COMPONENTS SUCH AS FUSES, FLAMEPROOF RESISTORS, CAPACITORS, ETC. MUST BE REPLACED WITH EXACT FACTORY TYPES, DO NOT USE REPLACEMENT COMPONENTS OTHER THAN THOSE SPECIFIED OR MAKE UNRECOMMENDED CIRCUIT MODIFICATIONS.
7. AFTER RE-ASSEMBLY OF THE SET ALWAYS PERFORM AN A.C. LEAKAGE TEST ON ALL EXPOSED METALLIC PARTS OF THE CABINET, (THE CHANNEL SELECTOR KNOB, ANTENNA TERMINALS, HANDLE AND SCREWS) TO BE SURE THE SET IS SAFE TO OPERATE WITHOUT DANGER OF ELECTRICAL SHOCK. DO NOT USE A LINE ISOLATION TRANSFORMER DURING THIS TEST USE AN A.C. VOLT-METER, HAVING 5000 OHMS PER VOLT OR MORE SENSITIVITY, IN THE FOLLOWING MANNER; CONNECT A 1500 OHM 10 WATT RESISTOR, PARALLELED BY A .15 MFD. 150.V A.C TYPE CAPACITOR BETWEEN A KNOWN GOOD EARTH GROUND (WATER PIPE, CONDUIT, ETC.) AND THE EXPOSED METALLIC PARTS, ONE AT A TIME. MEASURE THE A.C. VOLTAGE ACROSS THE COMBINATION OF 1500 OHM RESISTOR AND .15 MFD CAPACITOR. REVERSE THE A.C. PLUG AND REPEAT A.C. VOLTAGE MEASUREMENTS FOR EACH EXPOSED METALLIC PART. VOLTAGE MEASURED MUST NOT EXCEED 75 VOLTS R.M.S. THIS CORRESPONDS TO 0.5 MILLIAMPS A.C. ANY VALUE EXCEEDING THIS LIMIT CONSTITUTES A POTENTIAL SHOCK HAZARD AND MUST BE CORRECTED IMMEDIATELY.



SUBJECT: GRAPHIC SYMBOLS



THE LIGHTNING FLASH WITH ARROWHEAD SYMBOL, WITHIN AN EQUILATERAL TRIANGLE, IS INTENDED TO ALERT THE SERVICE PERSONNEL TO THE PRESENCE OF UNINSULATED "DANGEROUS VOLTAGE" THAT MAY BE OF SUFFICIENT MAGNITUDE TO CONSTITUTE A RISK OF ELECTRIC SHOCK.



THE EXCLAMATION POINT WITHIN AN EQUILATERAL TRIANGLE IS INTENDED TO ALERT THE SERVICE PERSONNEL TO THE PRESENCE OF IMPORTANT SAFETY INFORMATION IN SERVICE LITERATURE.

SUBJECT : X-RADIATION

1. BE SURE PROCEDURES AND INSTRUCTIONS TO ALL SERVICE PERSONNEL COVER THE SUBJECT OF X-RADIATION. THE ONLY POTENTIAL SOURCE OF X-RAYS IN CURRENT T.V. RECEIVERS IS THE PICTURE TUBE. HOWEVER, THIS TUBE DOES NOT EMIT X-RAYS WHEN THE HIGH VOLTAGE IS AT THE FACTORY SPECIFIED LEVEL. THE PROPER VALUE IS GIVEN IN THE APPLICABLE SCHEMATIC. OPERATION AT HIGHER VOLTAGES MAY CAUSE A FAILURE OF THE PICTURE TUBE OR HIGH VOLTAGE SUPPLY AND, UNDER CERTAIN CIRCUMSTANCES, MAY PRODUCE RADIATION IN EXCESS OF DESIRABLE LEVELS.
2. ONLY FACTORY SPECIFIED C.R.T. ANODE CONNECTORS MUST BE USED. DEGAUSSING SHIELDS ALSO SERVE AS X-RAY SHIELD IN COLOR SETS, ALWAYS RE-INSTALL THEM.
3. IT IS ESSENTIAL THAT SERVICE PERSONNEL HAVE AVAILABLE AN ACCURATE AND RELIABLE HIGH VOLTAGE METER. THE CALIBRATION OF THE METER SHOULD BE CHECKED PERIODICALLY AGAINST A REFERENCE STANDARD, SUCH AS THE ONE AVAILABLE AT YOUR DISTRIBUTOR.
4. WHEN THE HIGH VOLTAGE CIRCUITRY IS OPERATING PROPERLY THERE IS NO POSSIBILITY OF AN X-RADIATION PROBLEM. EVERY TIME A COLOR CHASSIS IS SERVICED, THE BRIGHTNESS SHOULD BE RUN UP AND DOWN WHILE MONITORING THE HIGH VOLTAGE WITH A METER TO BE CERTAIN THAT THE HIGH VOLTAGE DOES NOT EXCEED THE SPECIFIED VALUE AND THAT IT IS REGULATING CORRECTLY, WE SUGGEST THAT YOU AND YOUR SERVICE ORGANIZATION REVIEW TEST PROCEDURES SO THAT VOLTAGE REGULATION IS ALWAYS CHECKED AS A STANDARD SERVICING PROCEDURE. AND THAT THE HIGH VOLTAGE READING BE RECORDED ON EACH CUSTOMER'S INVOICE.
5. WHEN TROUBLESHOOTING AND MAKING TEST MEASUREMENTS IN A PRODUCT WITH A PROBLEM OF EXCESSIVE HIGH VOLTAGE, AVOID BEING UNNECESSARILY CLOSE TO THE PICTURE TUBE AND THE HIGH VOLTAGE SUPPLY. DO NOT OPERATE THE PRODUCT LONGER THAN IS NECESSARY TO LOCATE THE CAUSE OF EXCESSIVE VOLTAGE.
6. REFER TO HV. B+ AND SHUTDOWN ADJUSTMENT PROCEDURES DESCRIBED IN THE APPROPRIATE SCHEMATIC AND DIAGRAMS (WHERE USED).

SUBJECT: IMPLSION

1. ALL DIRECT VIEWED PICTURE TUBES ARE EQUIPPED WITH AN INTEGRAL IMPLSION PROTECTION SYSTEM, BUT CARE SHOULD BE TAKEN TO AVOID DAMAGE DURING INSTALLATION, AVOID SCRATCHING THE TUBE. IF SCRATCHED REPLACE IT.

2. USE ONLY RECOMMENDED FACTORY REPLACEMENT TUBES.

SUBJECT : TIPS ON PROPER INSTALLATION

1. NEVER INSTALL ANY PRODUCT IN A CLOSED-IN RECESS, CUBBY-HOLE OR CLOSELY FITTING SHELF SPACE. OVER OR CLOSE TO HEAT DUCT, OR IN THE PATH OF HEATED AIR FLOW.
2. AVOID CONDITIONS OF HIGH HUMIDITY SUCH AS: OUTDOOR PATIO INSTALLATIONS WHERE DEW IS A FACTOR, NEAR STEAM RADIATORS WHERE STEAM LEAKAGE IS A FACTOR, ETC.
3. AVOID PLACEMENT WHERE DRAPERIES MAY OBSTRUCT REAR VENTING. THE CUSTOMER SHOULD ALSO AVOID THE USE OF DECORATIVE SCARVES OR OTHER COVERINGS WHICH MIGHT OBSTRUCT VENTILATION.
4. WALL AND SHELF MOUNTED INSTALLATIONS USING A COMMERCIAL MOUNTING KIT. MUST FOLLOW THE FACTORY APPROVED MOUNTING INSTRUCTIONS A PRODUCT MOUNTED TO A SHELF OR PLATFORM MUST RETAIN ITS ORIGINAL FEET (OR THE EQUIVALENT THICKNESS IN SPACERS) TO PROVIDE ADEQUATE AIR FLOW ACROSS THE BOTTOM. BOLTS OR SCREWS USED FOR FASTENERS MUST NOT TOUCH ANY PARTS OR WIRING. PERFORM LEAKAGE TEST ON CUSTOMIZED INSTALLATIONS.
5. CAUTION CUSTOMERS AGAINST THE MOUNTING OF A PRODUCT ON SLOPING SHELF OR A TILTED POSITION, UNLESS THE PRODUCT IS PROPERLY SECURED.
6. A PRODUCT ON A ROLL-ABOUT CART SHOULD BE STABLE ON ITS MOUNTING TO THE CART. CAUTION THE CUSTOMER ON THE HAZARDS OF TRYING TO ROLL A CART WITH SMALL CASTERS ACROSS THRESHOLDS OR DEEP PILE CARPETS.
7. CAUTION CUSTOMERS AGAINST THE USE OF A CART OR STAND WHICH HAS NOT BEEN LISTED BY UNDERWRITERS LABORATORIES, INC. FOR USE WITH THEIR SPECIFIC MODEL OF TELEVISION RECEIVER OR GENERICALLY APPROVED FOR USE WITH T.V.'S OF THE SAME OR LARGER SCREEN SIZE.
8. CAUTION CUSTOMERS AGAINST THE USE OF EXTENSION CORDS, EXPLAIN THAT A FOREST OF EXTENSIONS SPROUTING FROM A SINGLE OUTLET CAN LEAD TO DISASTROUS CONSEQUENCES TO HOME AND FAMILY.

SERVICING PRECAUTIONS

CAUTION : Before servicing the VCR+DVD covered by this service data and its supplements and addends, read and follow the **SAFETY PRECAUTIONS**. **NOTE :** if unforeseen circumstances create conflict between the following servicing precautions and any of the safety precautions in this publications, always follow the safety precautions.

Remembers Safety First:

General Servicing Precautions

1. Always unplug the VCR+DVD AC power cord from the AC power source before:
 - (1) Removing or reinstalling any component, circuit board, module, or any other assembly.
 - (2) Disconnection or reconnecting any internal electrical plug or other electrical connection.
 - (3) Connecting a test substitute in parallel with an electrolytic capacitor.

Caution : A wrong part substitution or incorrect polarity installation of electrolytic capacitors may result in an explosion hazard.
2. Do not spray chemicals on or near this VCR+DVD or any of its assemblies.
3. Unless specified otherwise in this service data, clean electrical contacts by applying an appropriate contact cleaning solution to the contacts with a pipe cleaner, cotton-tipped swab, or comparable soft applicator. Unless specified otherwise in this service data, lubrication of contacts is not required.
4. Do not defeat any plug/socket B+ voltage interlocks with which instruments covered by this service manual might be equipped.
5. Do not apply AC power to this VCR+DVD and/or any of its electrical assemblies unless all solid-state device heat sinks are correctly installed.
6. Always connect test instrument ground lead to the appropriate ground before connection the test instrument positive lead. Always remove the test instrument ground lead last.

Insulation Checking Procedure

Disconnect the attachment plug from the AC outlet and turn the power on. Connect an insulation resistance meter(500V) to the blades of the attachment plug. The insulation resistance between each blade of the attachment plug and accessible conductive parts (Note 1) should be more than 1M-ohm.

Note 1 : Accessible Conductive Parts including Metal panels, Input terminals, Earphone jacks, etc.

Electrostatically Sensitive (ES) Devices

Some semiconductor (solid state) devices can be damaged easily by static electricity. Such components commonly are called Electrostatically Sensitive (ES) Devices. Examples of typical ES devices are integrated circuits and some field effect transistors and semiconductor chip components.

The following techniques should be used to help reduce the incidence of component damage caused by static electricity.

1. Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any electrostatic charge on your body by touching a known earth ground. Alternatively, obtain and wear a commercially available discharging wrist strap device, which should be removed for potential shock reasons prior to applying power to the unit under test.
2. After removing an electrical assembly equipped with ES devices, place the assembly on a conductive surface such as aluminum foil, to prevent electrostatic charge buildup or exposure of the assembly.
3. Use only a grounded-tip soldering iron to solder or unsolder ES devices.
4. Use only an anti-static solder removal device. Some solder removal devices not classified a "anti-static" can generate electrical charges sufficient to damage ES devices.
5. Do not use freon-propelled chemicals. These can generate electrical charge sufficient to damage ES devices.
6. Do not remove a replacement ES device from its protective package until immediately before you are ready to install it. (Most replacement ES devices are packaged with leads electrically shorted together by conductive foam, aluminum foil, or comparable conductive material).
7. Immediately before removing the protective material from the leads of a replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.

Caution : Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.

8. Minimize bodily motions when handling unpackaged replacement ES devices. (Normally harmless motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity sufficient to damage an ES device.)

SERVICE INFORMATION FOR EEPROM IC SETTING

EEPROM option code No. setting

NAME	HEX	BINARY
OPT1	00	00000000
OPT2	00	00000000
OPT3	00	00000000
OPT4	00	00000000
OPT5	00	00000000
OPT6	00	00000000

WR : OK I : EXIT MOVE : ◀ ▶
 EDIT : ▲ ▼

MASKROM : R00
 EEPROM : R00 LG CODE

NAME	HEX	BINARY
OPT1	FE	00000000
OPT2	63	00000000
OPT3	60	00000000
OPT4	F0	00000000
OPT5	62	00000000
OPT6	40	00000000

WR : OK I : EXIT MOVE : ◀ ▶
 EDIT : ▲ ▼

EEPROM option code No. setting procedure

1. DETECT NEW EEPROM (OPTION EDIT SCREEN)

- Eeprom EDIT screen automatically appears if replacing Eeprom.
- Setup option data using the cursor Up/Down key of a remote control.
(Setup upon BOM depending on OPT1~OPT6 model)
- Since an initial remote control is set to LG for LG model, appropriately set optiona data using the cursor Up/Down key.

2. EEPROM WRITED COMPLETE SCREEN

- Writes data on EEPROM by using REMOCON "OK".
- If completing the option data screen with a menu key, Powering Off is automatically done and the option edit screen is arranged.

3. PG ADJUST

- 1) Playback the SP standard tape
- 2) Press the "1" key on the Remote controller and the "PLAY" key on the Front Panel the same time, then it goes in to Tracking initial mode.
- 3) Repeat the above step(No.2), then it finishes the PG adjusting automatically.
- 4) Stop the playback, then it goes out to PG adjusting mode after mony the PG data.

4. EEPROM INITIAL

- SETUP is displayed in the field if pressing the FRONT REC KEY with the remocon number "CLEAR" key pressed in the status of powering Off.
- AUTO SEARCH is done since the initial screen of ACMS is serviced if powering On.
- Check basic operation (PLAY/RECORD...)

SPECIFICATIONS

DVD PART

Power supply	AC 200~240V, 50 Hz
Power consumption	23W
Mass	5.4kg
External dimensions	430 x 97.5 x 360 (W x H x D)
Signal system	PAL 625/50, NTSC 525/60
Laser	Semiconductor laser, wavelength 650nm
Frequency range (digital audio)	4 Hz to 20 kHz
Signal-to-noise ratio (digital audio)	More than 100 dB (EIAJ)
Audio dynamic range (digital audio)	More than 95 dB (EIAJ)
Harmonic distortion(digital audio)	0.008%
Wow and flutter	Below measurable level (less than +0.001%(W.PEAK)) (EIAJ)
Operations	Temperature : 5°C(41°F) to 35°C(95°F), Operation status : Horizontal

OUTPUTS

Video outputs	1.0V(p-p), 75Ω, negative sync., RCA jack x 1/SCART(TO TV)
S video outputs	(Y)1.0V(p-p), 75Ω, negative sync.,Mini DIN 4-pin x 1 (C)0.3V(p-p), 75Ω
Component video output	(Y) 1.0 V (p-p), 75 Ω, negative sync., RCA jack x 1 (Pb)/(Pr) 0.7 V (p-p), 75 Ω
Audio output(digital audio)	0.5V(p-p), 75Ω, RCA jack X 1/SCART(TO TV)
Audio output(optical audio)	Optical connector x 1
Audio output(analog audio)	2.0Vrms (1kHz, 0dB), 330Ω, RCA jack (L, R) x 1/ SCART(TO TV)

VHS PART

Video Head System	Double azimuth 4 heads, helical scanning
Tape format	Tape width 12.7 mm (0.5 inch)
Timer	24 hours display type

*Designs and specifications are subject to change without notice.

*Weight and dimensions shown are approximate.

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CABINET & MAIN CHASSIS
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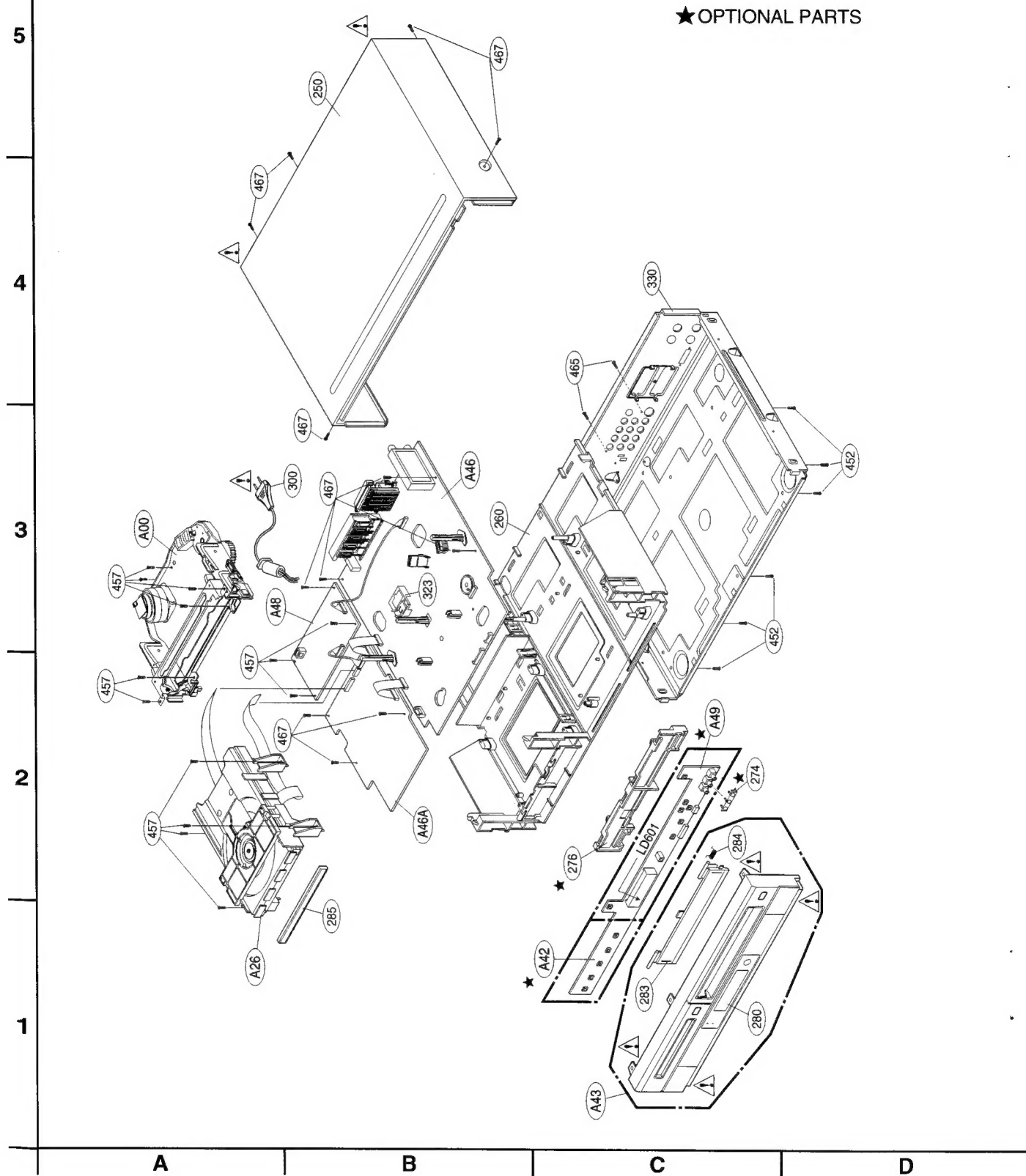
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2. Packing Accessory Section2-3

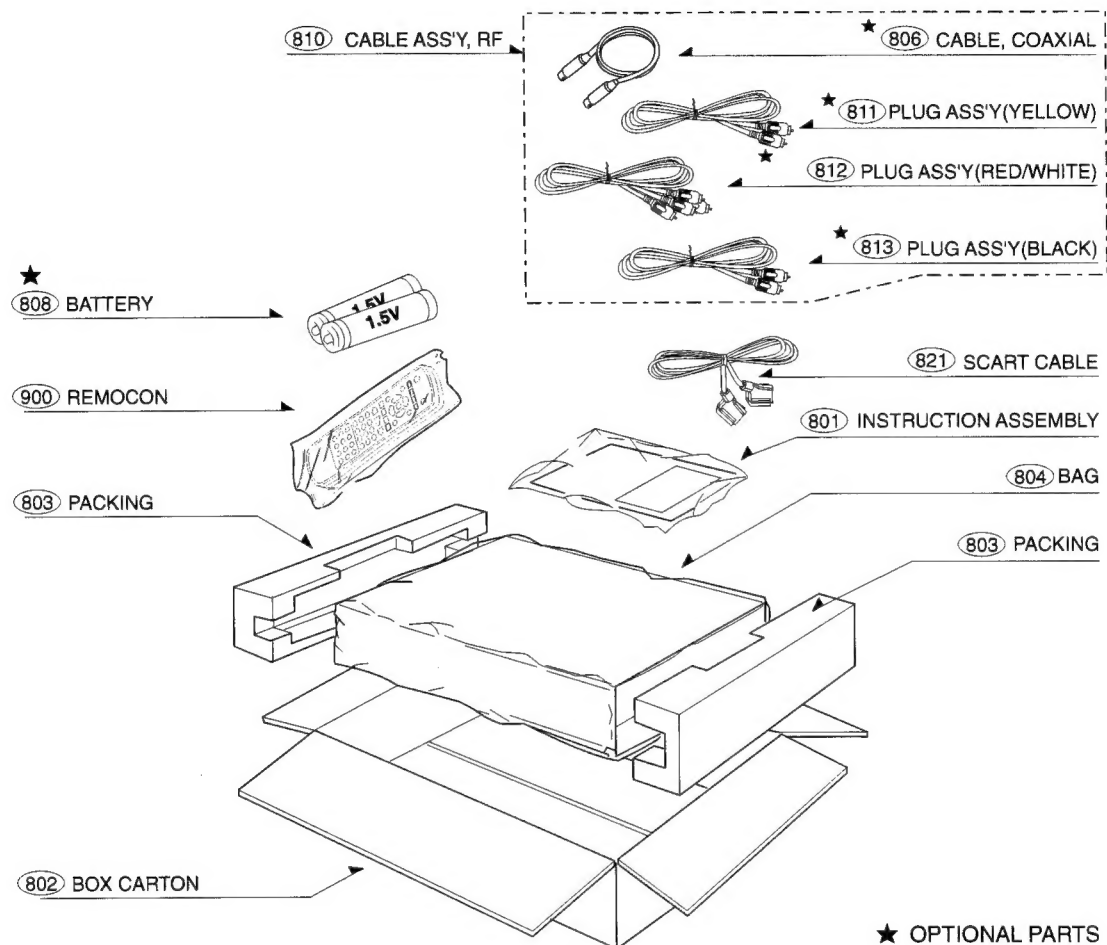
EXPLODED VIEWS

1. Cabinet and Main Frame Section

★ OPTIONAL PARTS



2. Packing Accessory Section



SECTION 3

ELECTRICAL

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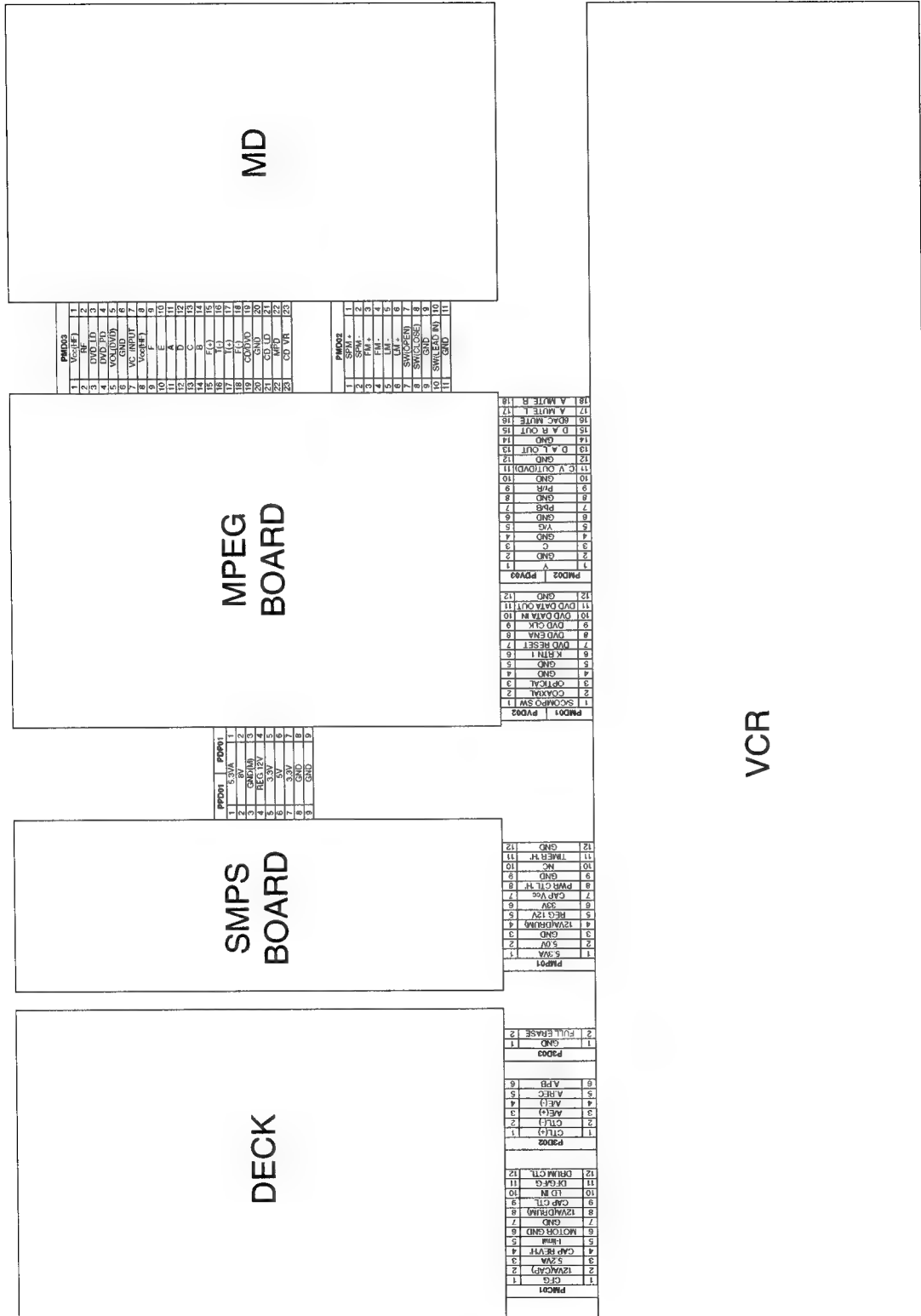
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OVERALL WIRING DIAGRAM



VCR PART

ELECTRICAL ADJUSTMENT PROCEDURES

1. Servo Adjustment

- 1) PG Adjustment
 - Test Equipment

a) OSCILLOSCOPE

c) PAL MODEL : PAL SP TEST TAPE

b) NTSC MODEL : NTSC SP TEST TAPE

- Adjustment And Specification

MODE	MEASUREMENT POINT	ADJUSTMENT POINT	SPECIFICATION
PLAY	V.Out H/SW(JP05, JP06)	R/C TRK JIG KEY	$6.5 \pm 0.5H$

• Adjustment Procedure

a) Insert the SP Test Tape and play.

Note - Adjust the distance of X, pressing the Tracking(+) or Tracking(-) when the "ATR" is blink after the SP Test Tape is inserted.

b) Connect the CH1 of the oscilloscope to the H/SW(JP05, JP06) and CH2 to the Video Out for the VCR.

c) Trigger the mixed Combo Video Signal of CH2 to the CH1 H/SW(JP05, JP06), and then check the distance (time difference), which is from the selected A(B) Head point of the H/SW(JP05, JP06) signal to the starting point of the vertical synchronized signal, to $6.5H \pm 0.5H$ ($412\mu s$, $1H=63\mu s$).

• PG Adjustment Method

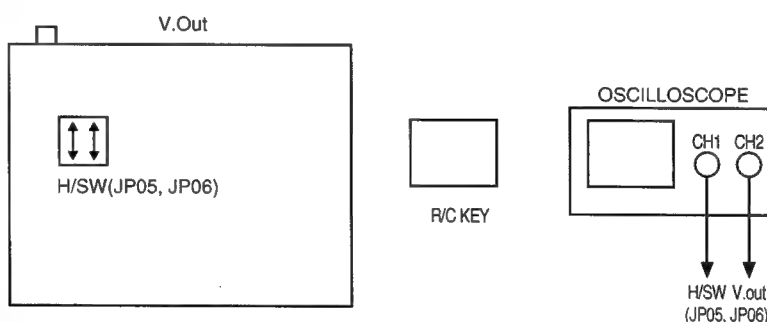
a-1) Playback the SP standard tape

b-2) Press the "1" key on the Remote controller and the "PLAY" key on the Front Panel the same time, then it goes in to Tracking initial mode.

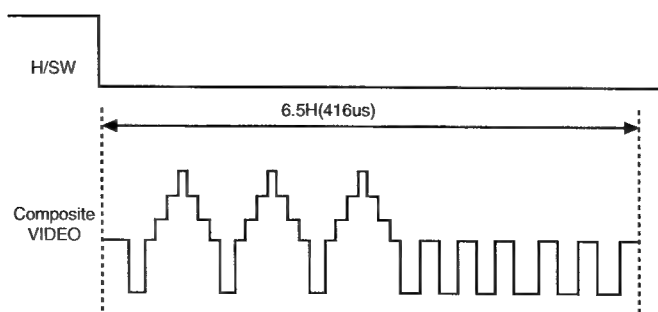
c-3) Repeat the above step(No.b-2), then it finishes the PG adjusting automatically.

d-4) Stop the playback, then it goes out to PG adjusting mode after many the PG data.

• CONNECTION



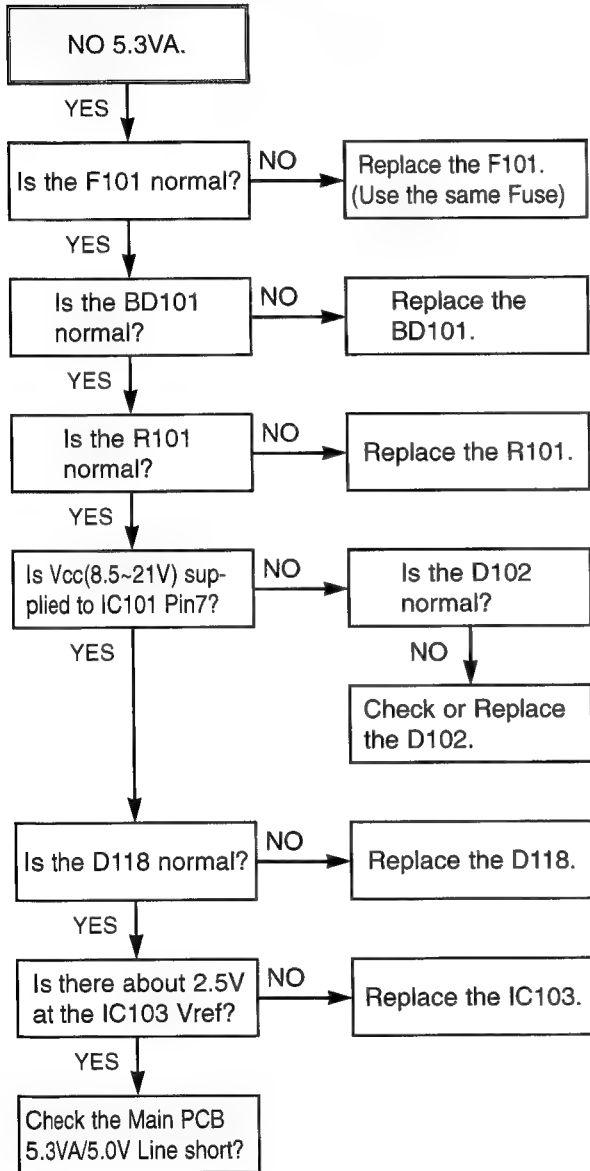
• WAVEFORM



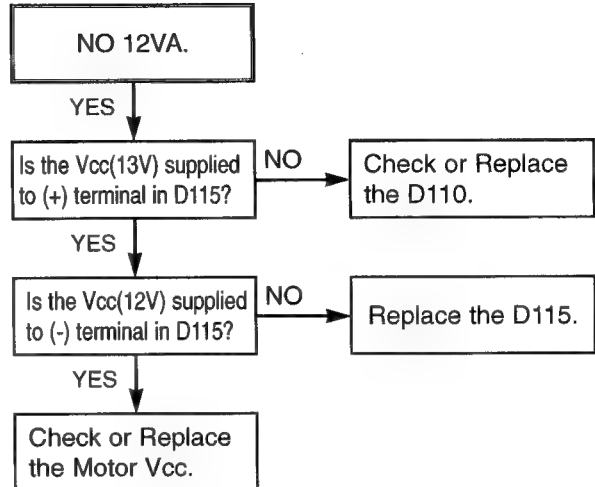
ELECTRICAL TROUBLESHOOTING GUIDE

1. Power(SMPS) CIRCUIT

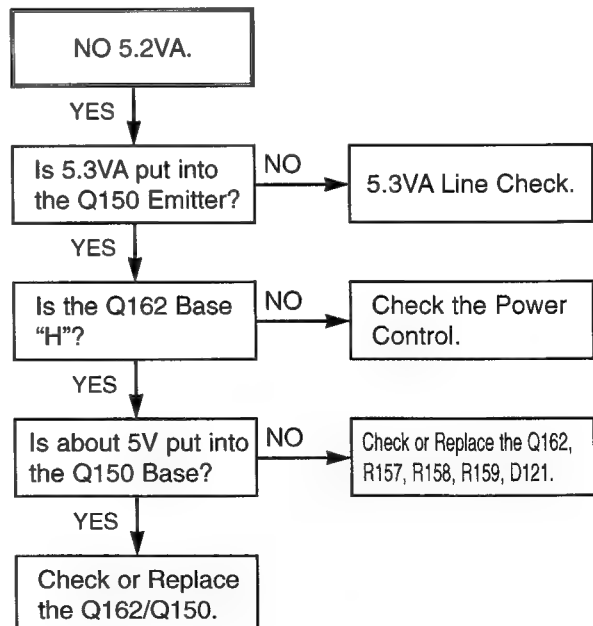
(1) No 5.3VA (SYS/Hi-Fi/TUNER)



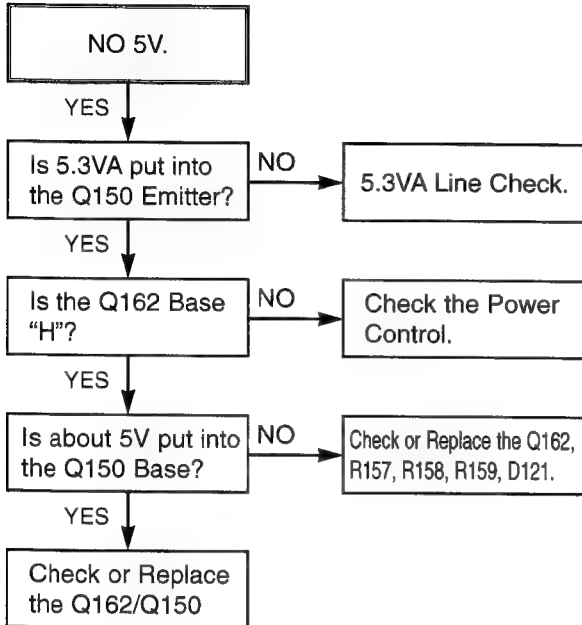
(2) No 12VA (TO CAP, DRUM MOTOR)



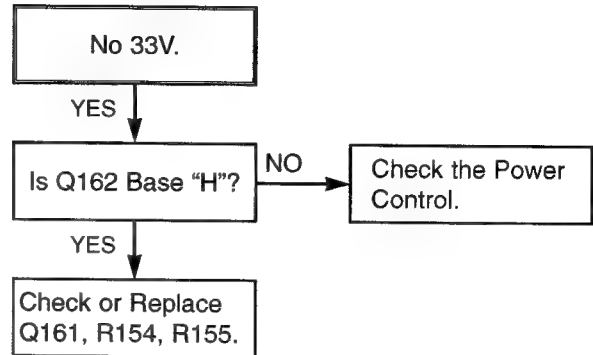
(3) No 5.2V (SYS/Hi-Fi/TUNER)



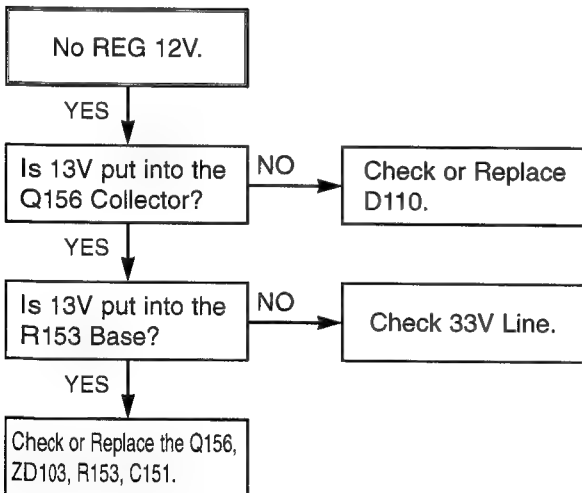
(4) No 5V (TO DVD)



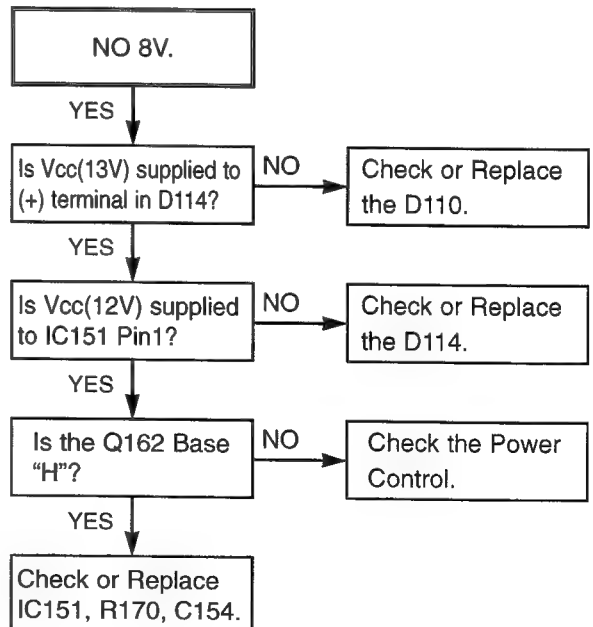
(5) No 33V (TUNER)



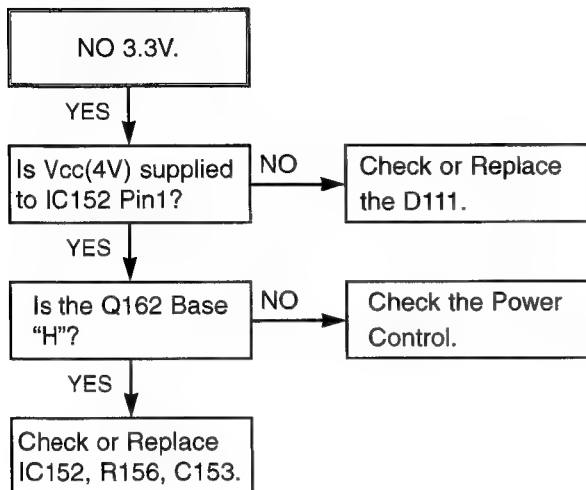
(6) No REG 12V



(7) No 8V(TO DVD)

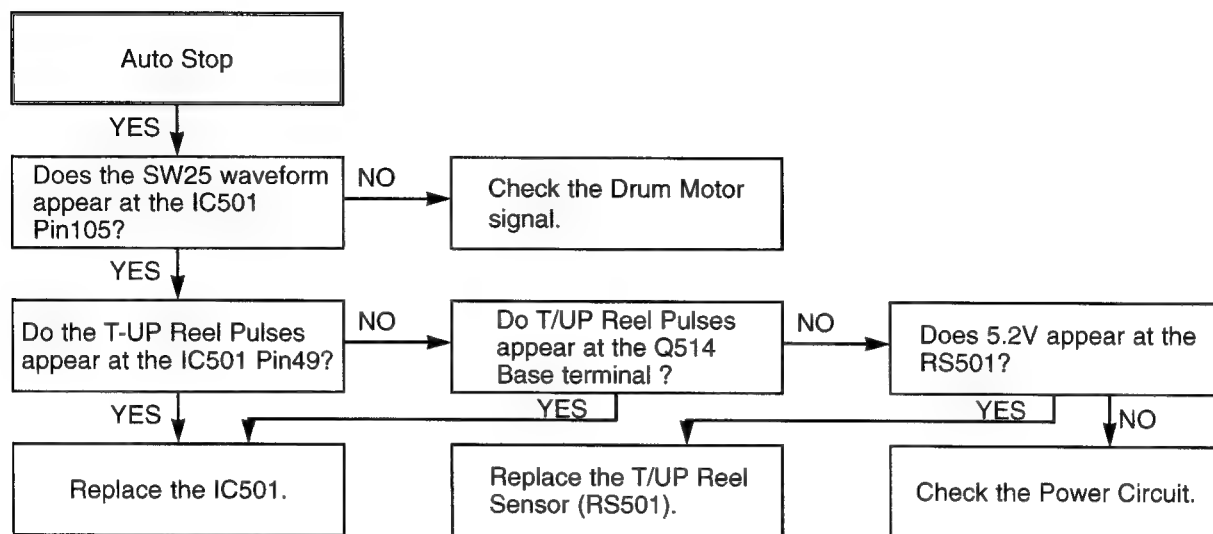


(8) No 3.3V(TO DVD)

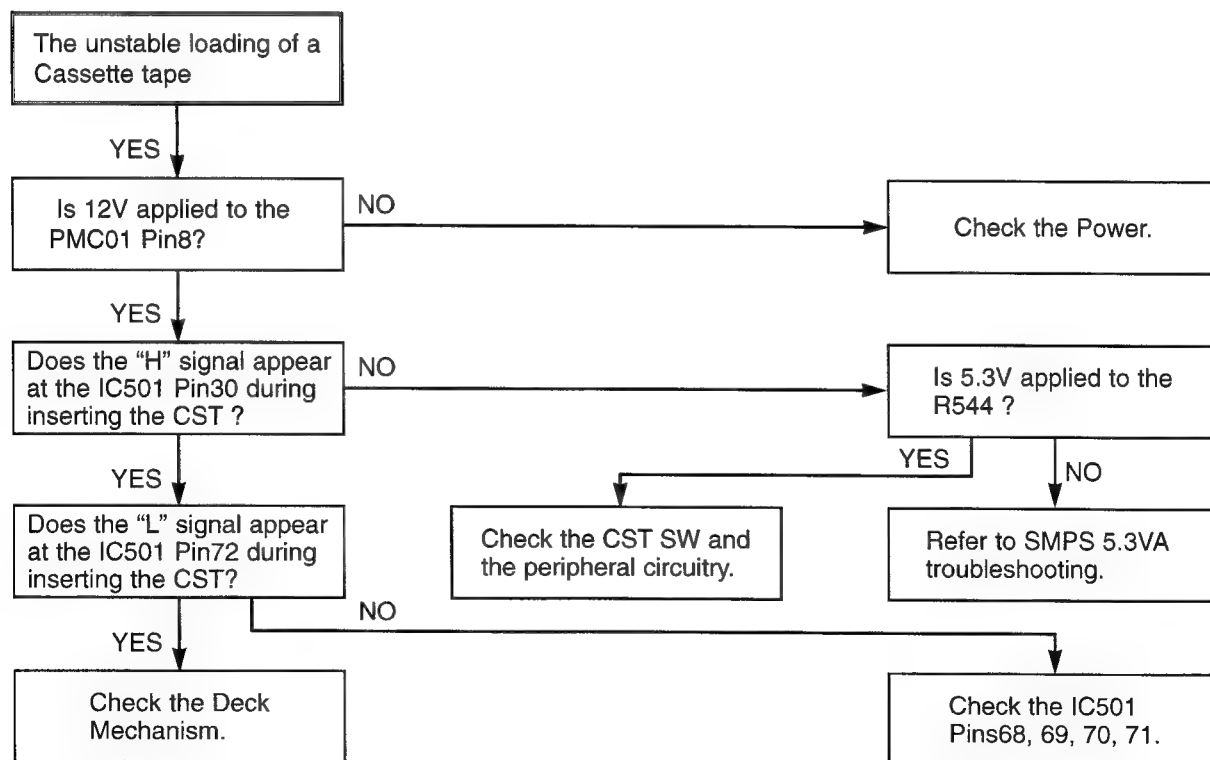


2. SYSTEM/KEY CIRCUIT

(1) AUTO STOP



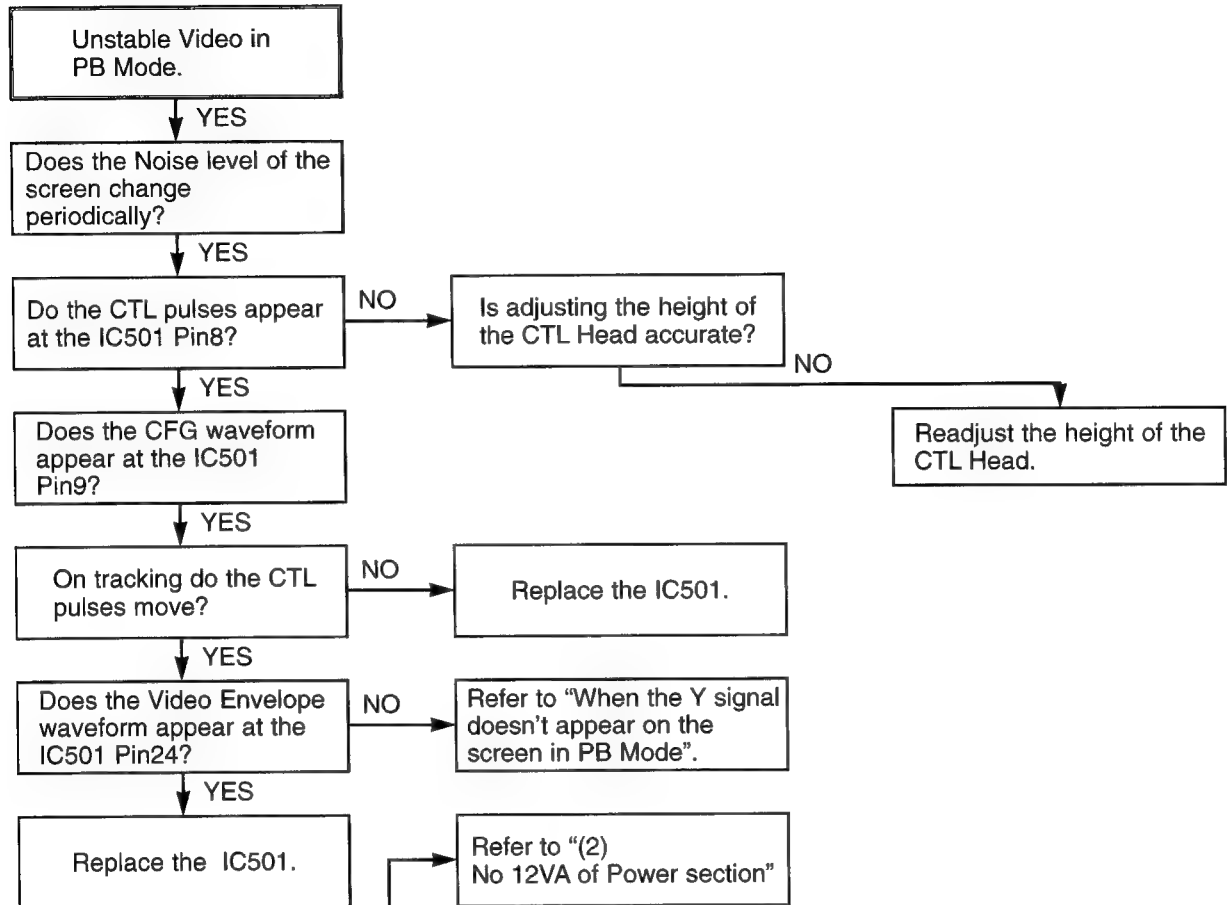
(2) The unstable loading of a Cassette tape



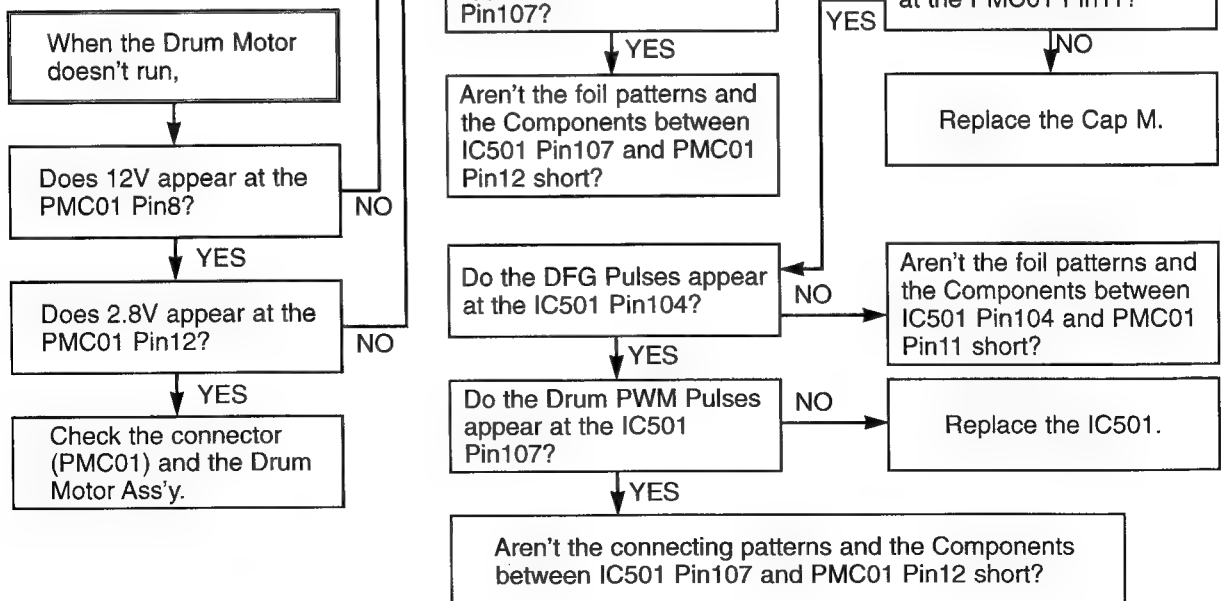
Caution : Auto stop can occur because Grease or Oil is dried up

3. SERVO CIRCUIT

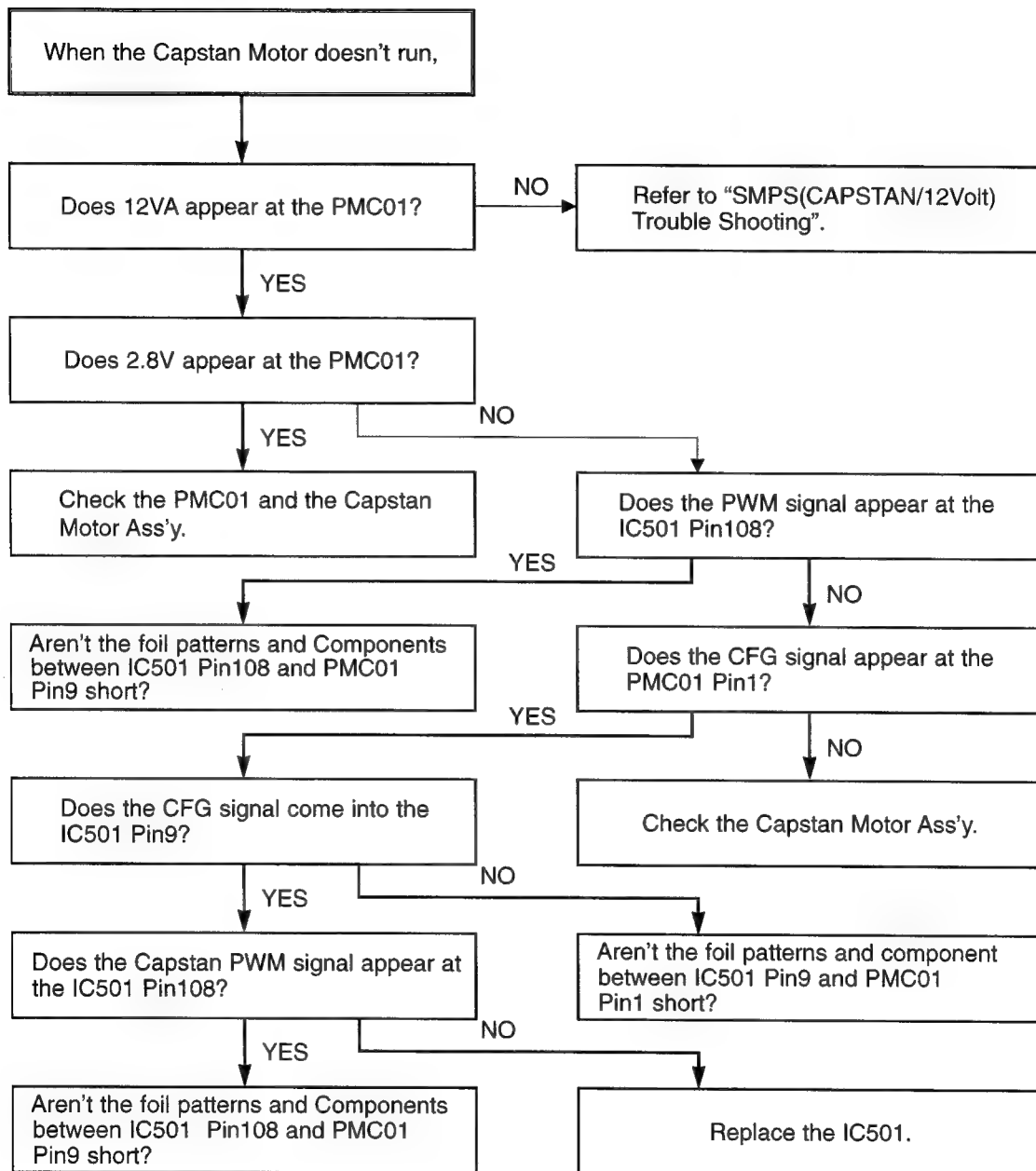
(1) Unstable Video in PB MODE



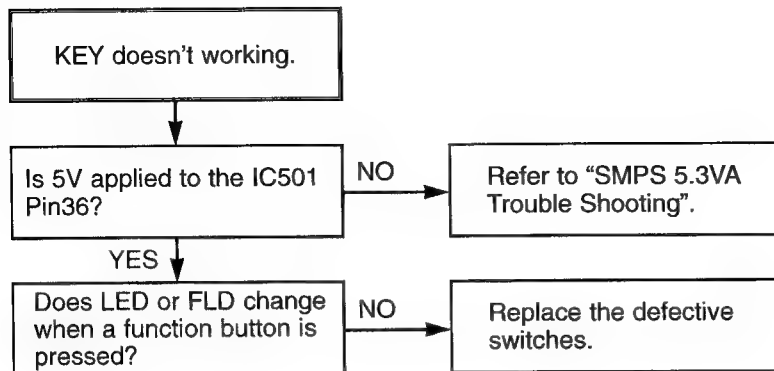
(2) When the Drum Motor doesn't run.



(3) When the Capstan Motor doesn't run,

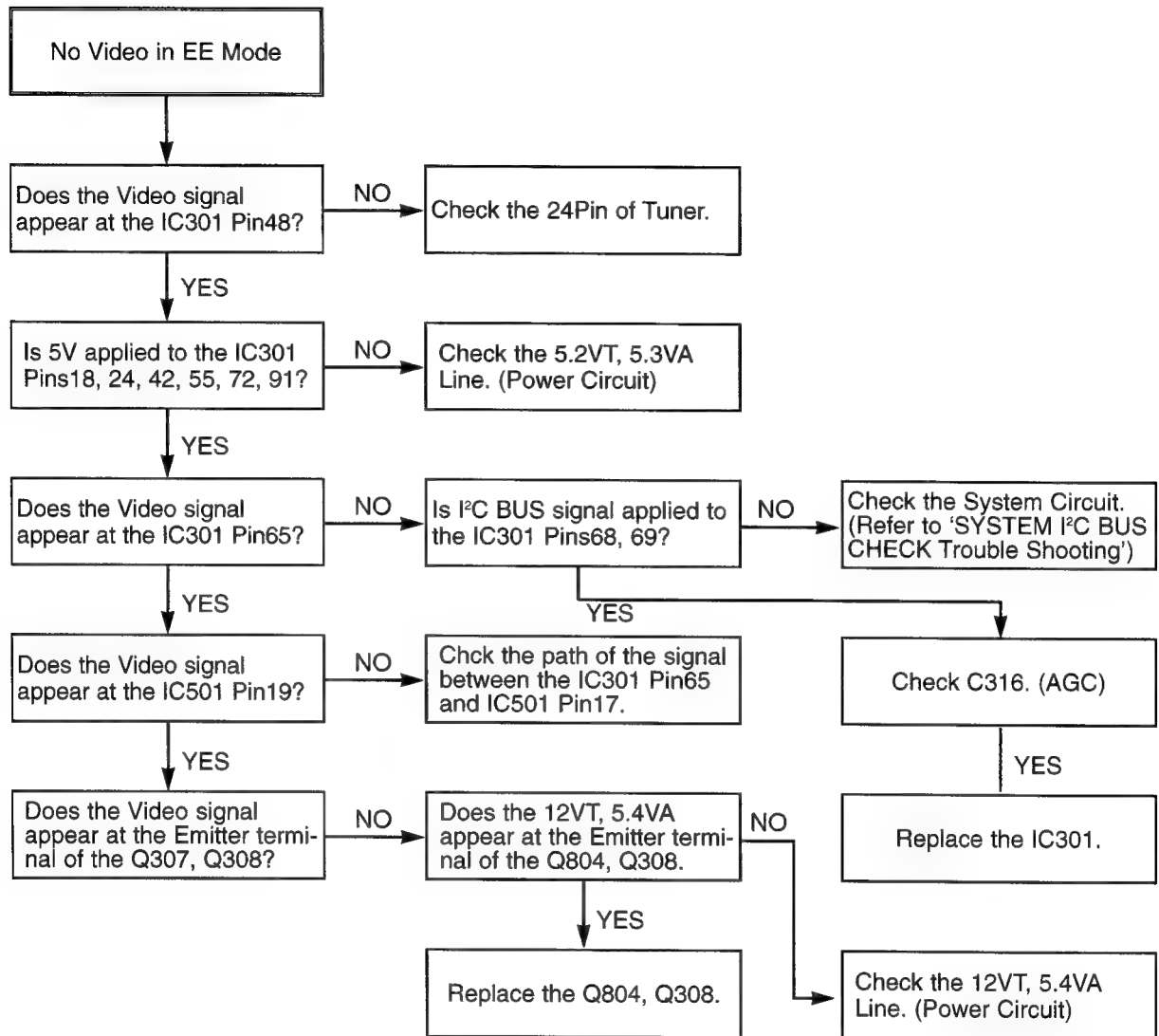


(4) KEY doesn't working

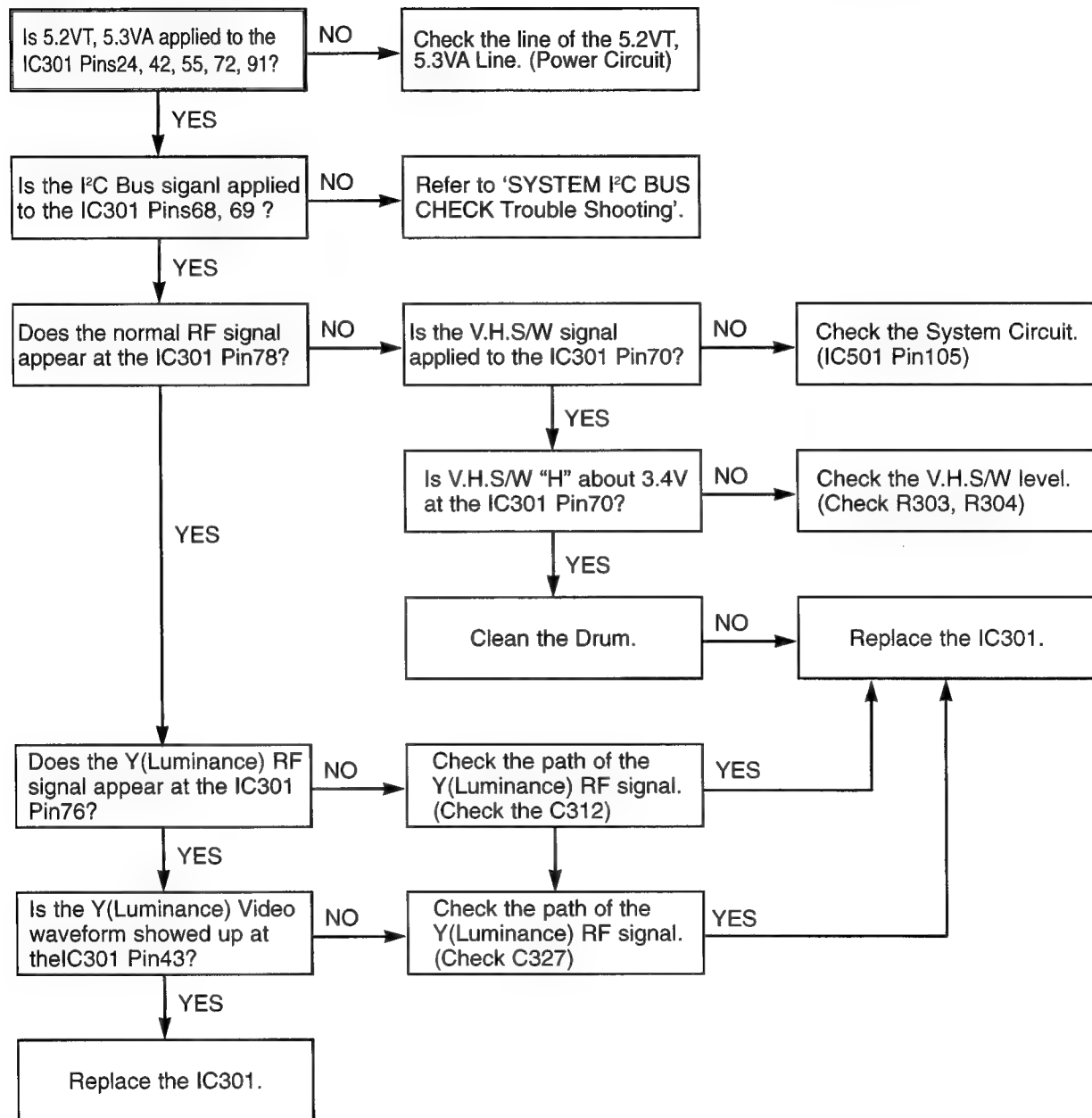


4. Y/C CIRCUIT

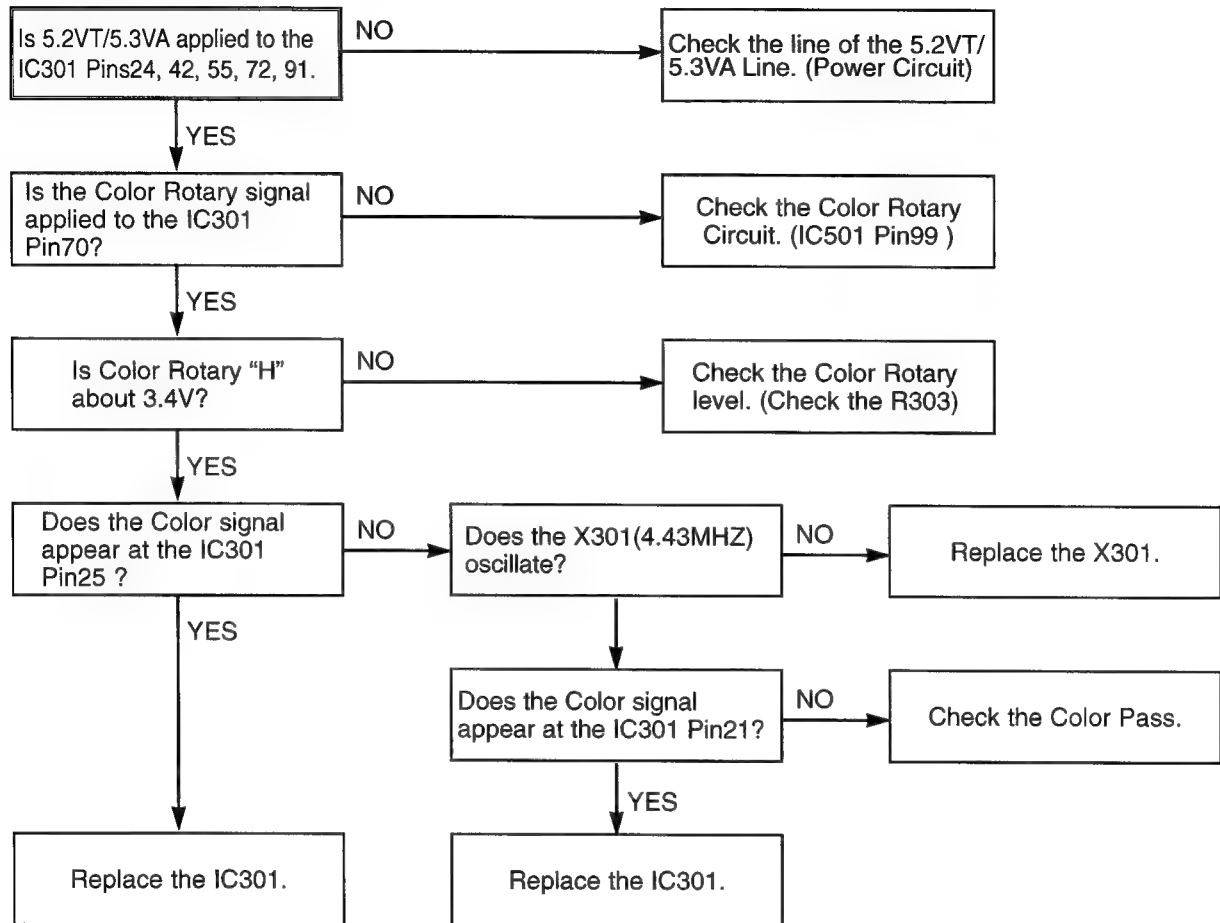
(1) No Video in EE Mode,



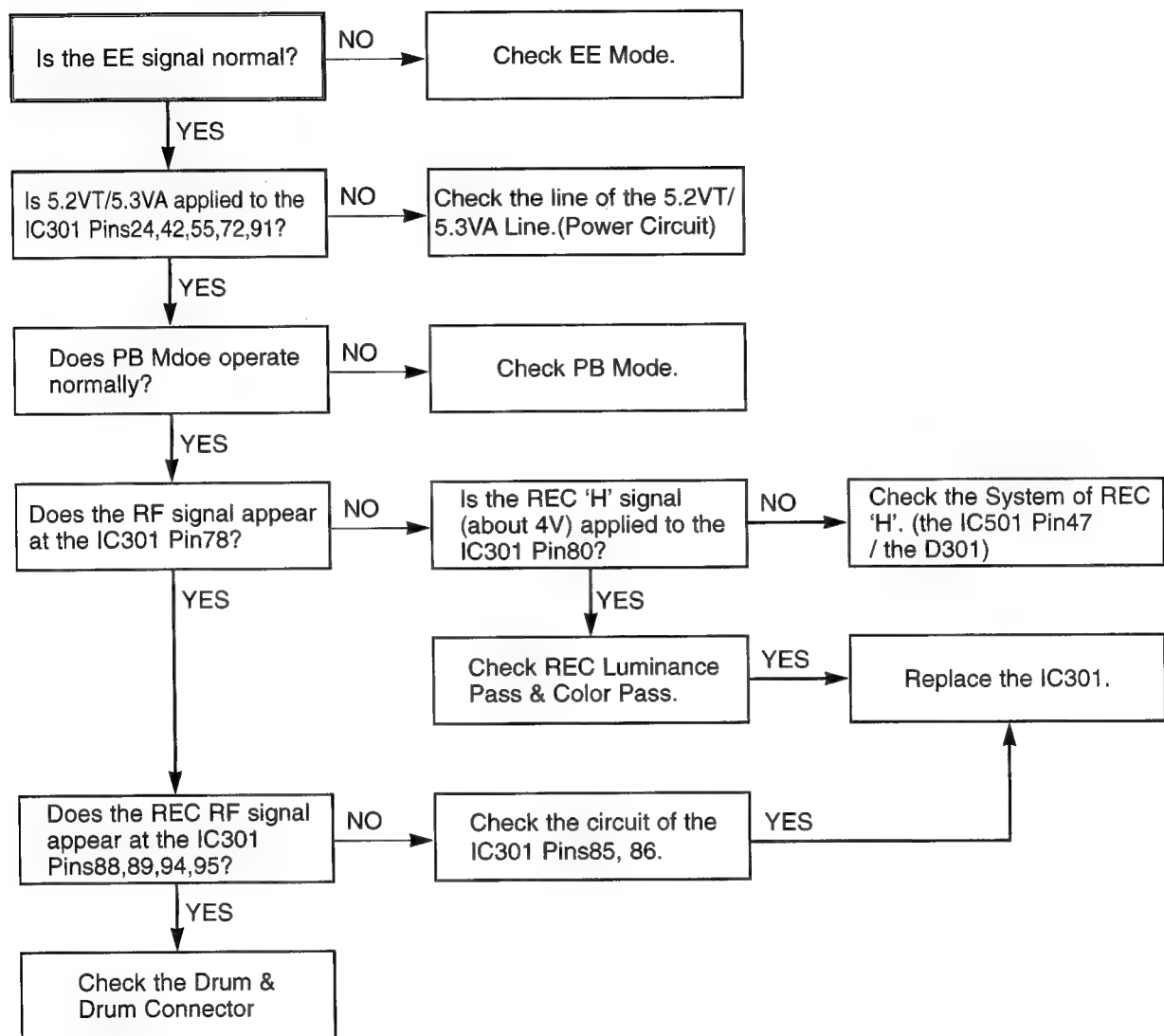
(2) When the Y(Luminance) signal doesn't appear on the screen in PB Mode,



(3) When the C(Color) signal doesn't appear on the screen in PB Mode,

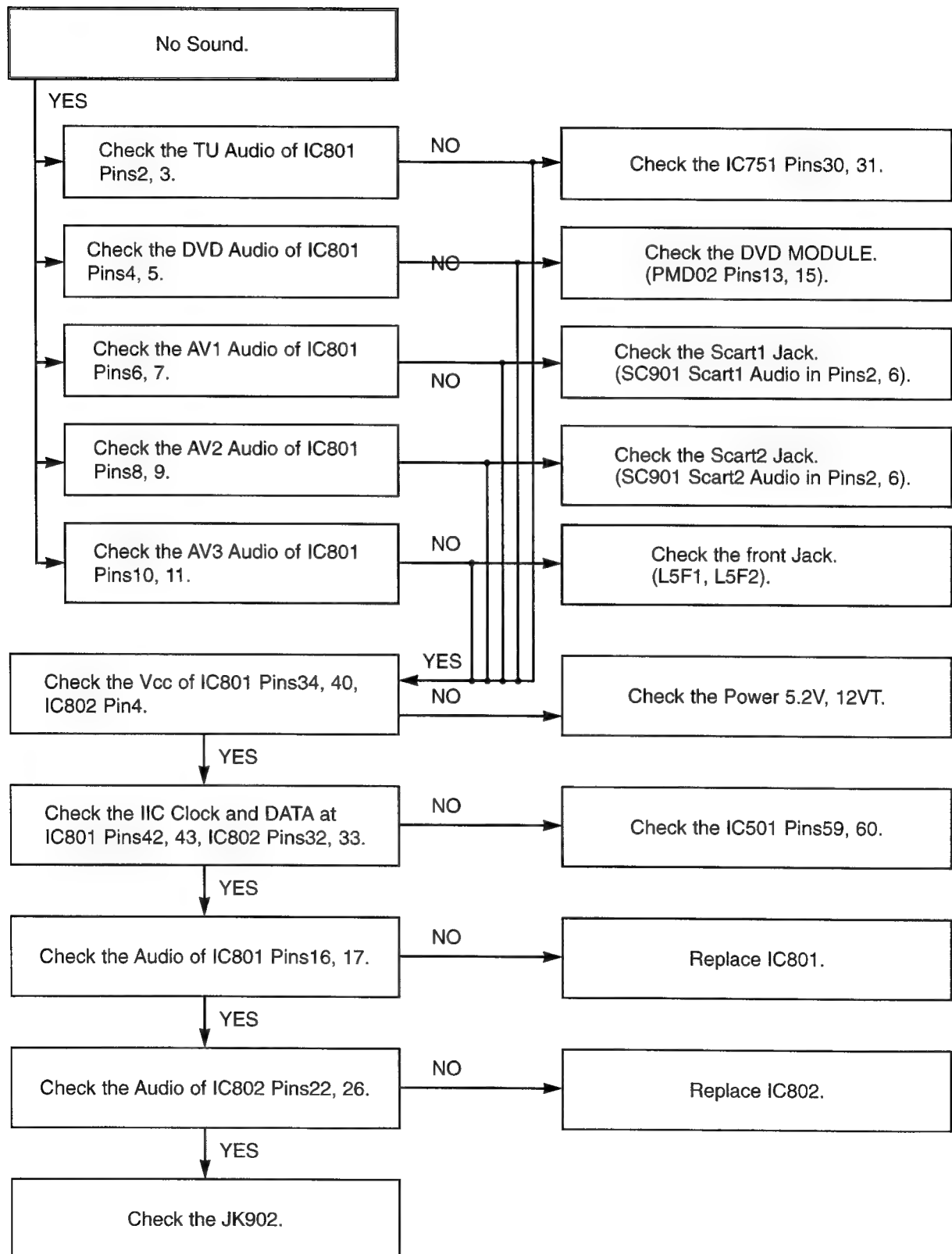


(4) When the Video signal doesn't appear on the screen in REC Mode,

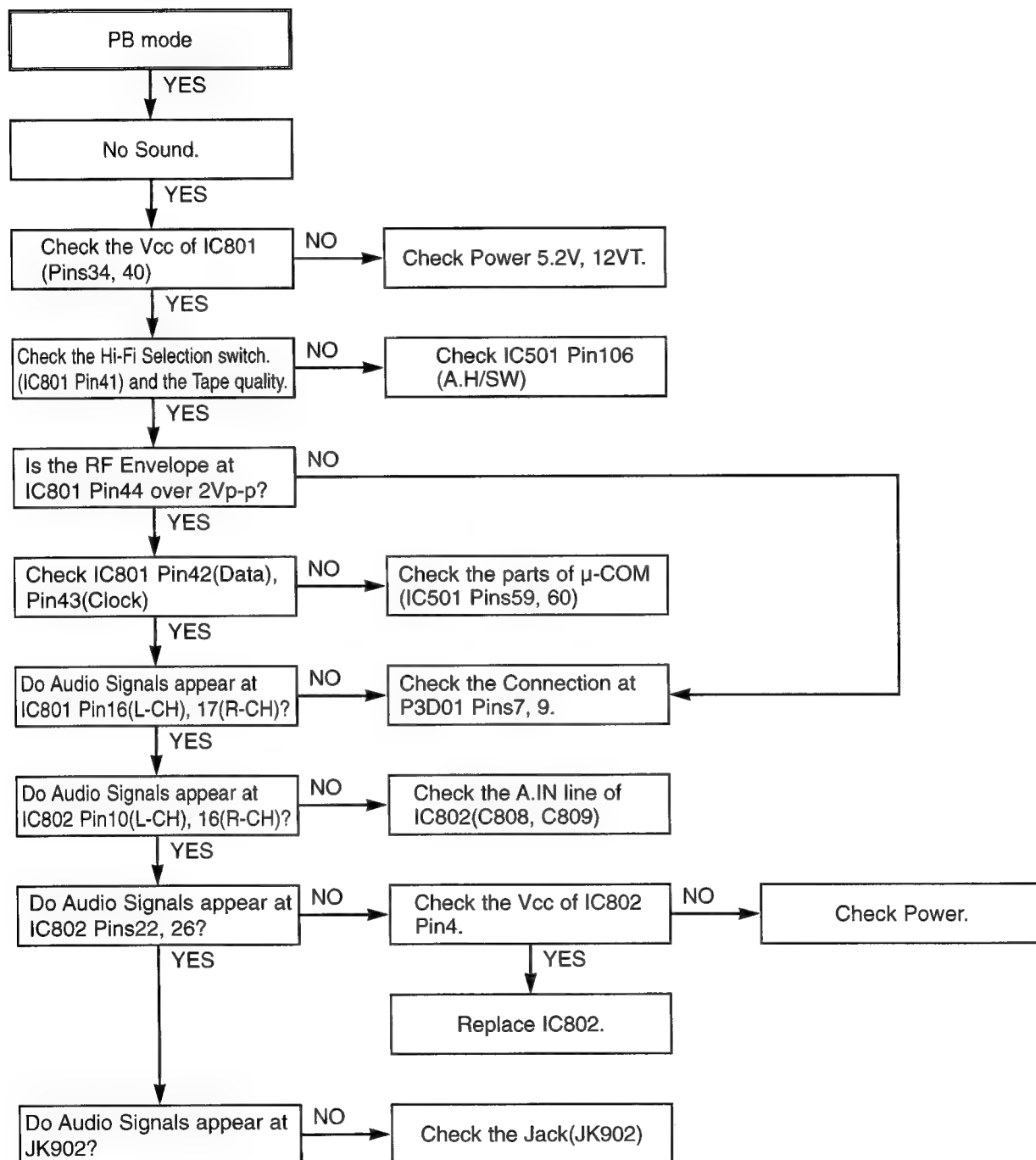


5. Hi-Fi CIRCUIT

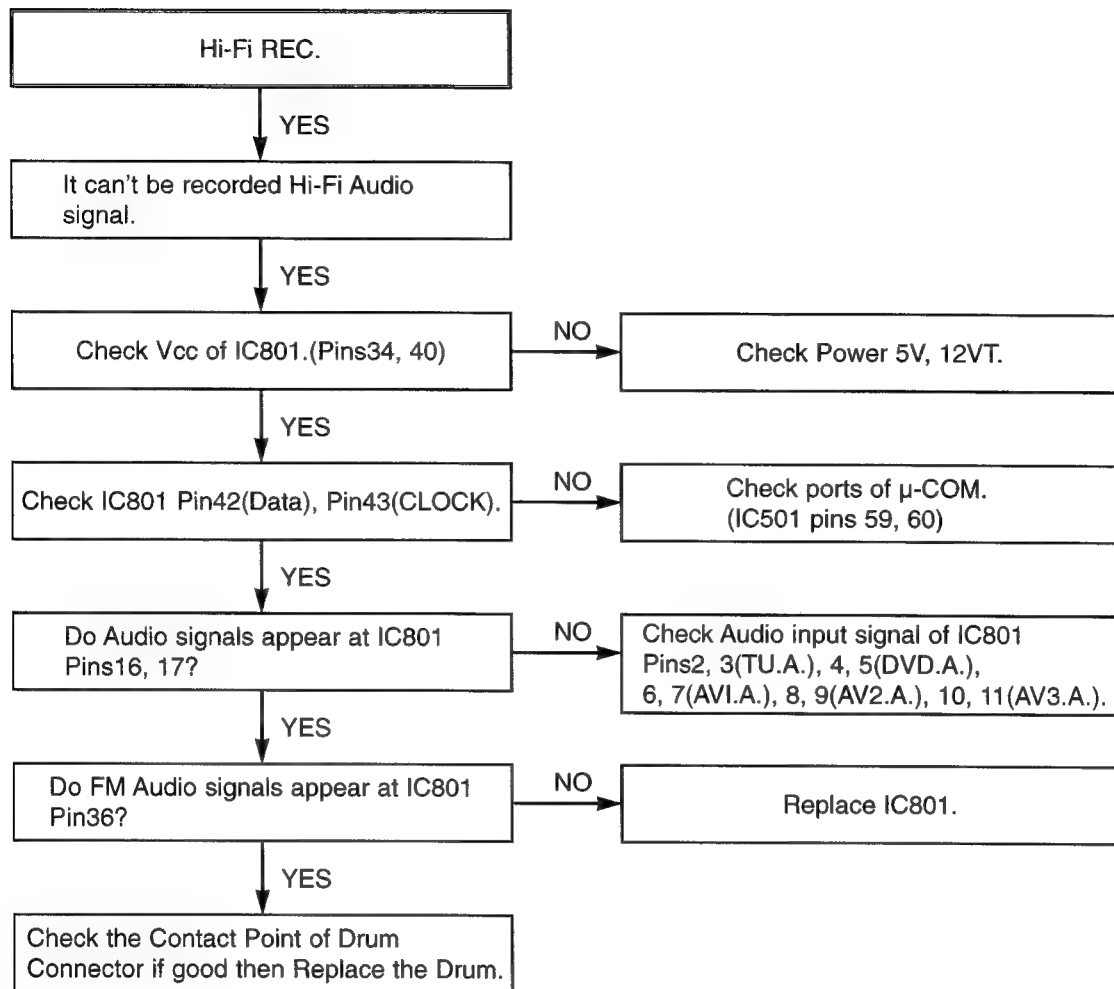
(A) No Sound(EE Mode)



(B) Hi-Fi Playback

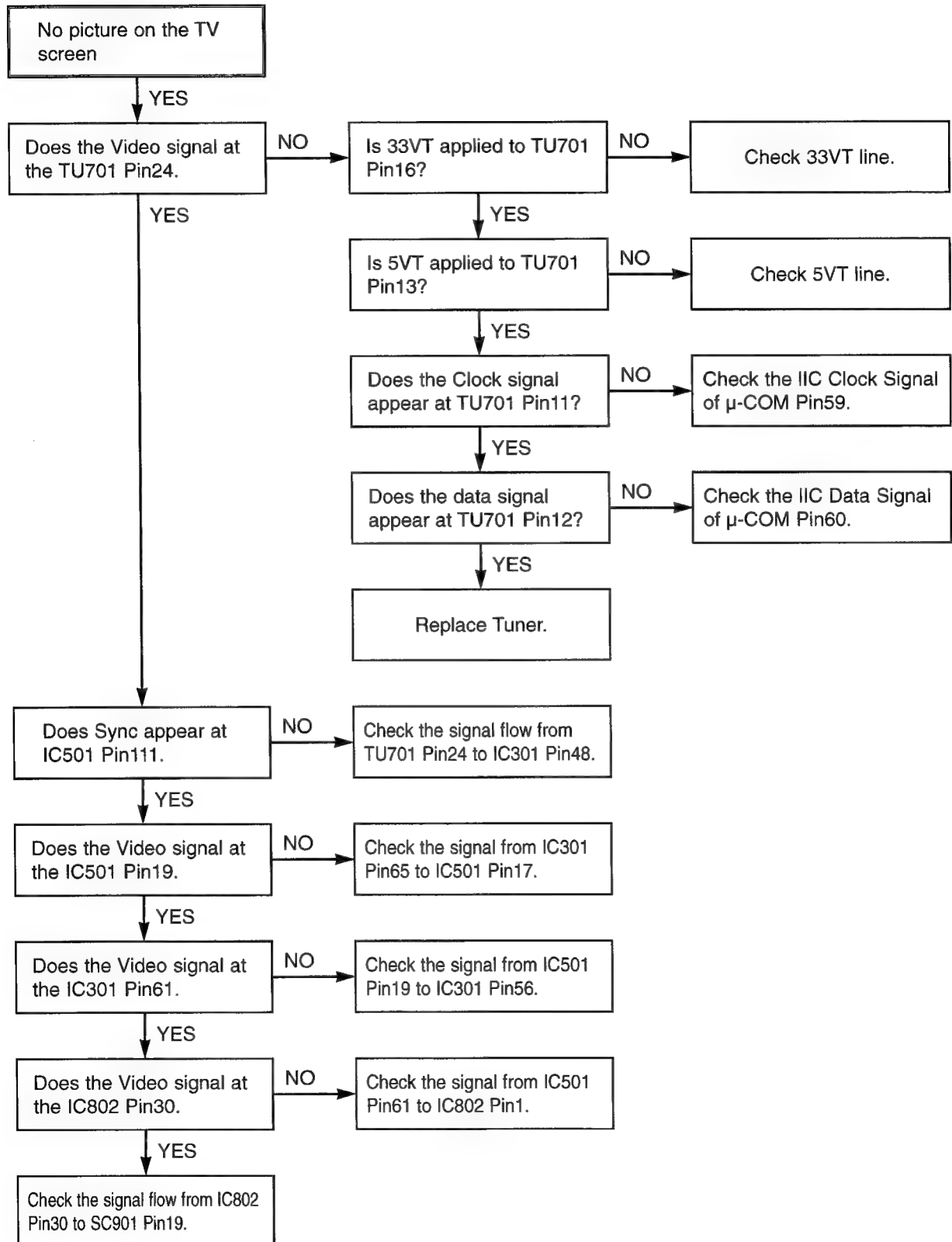


(C)

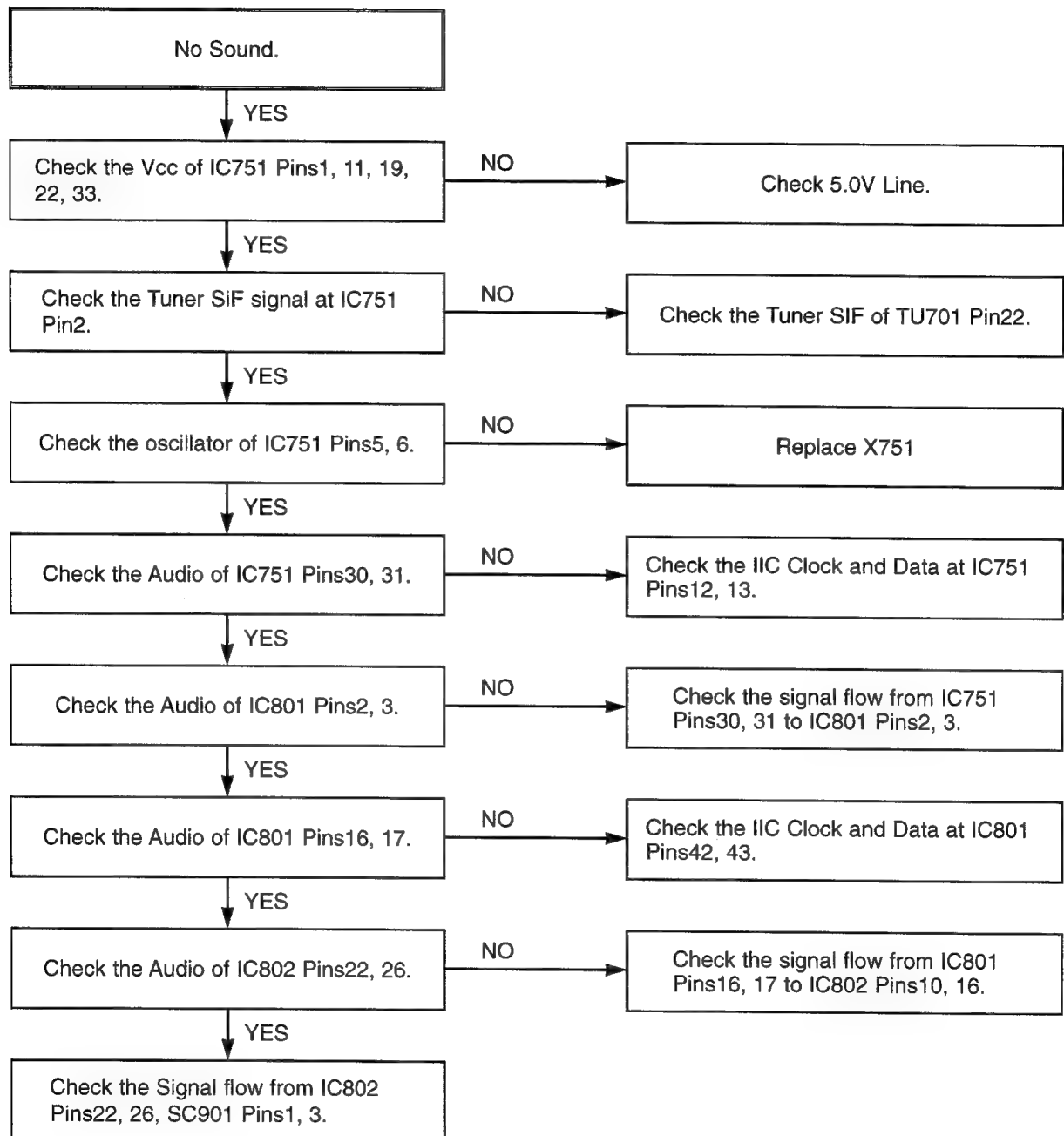


6. Tuner/IF CIRCUIT

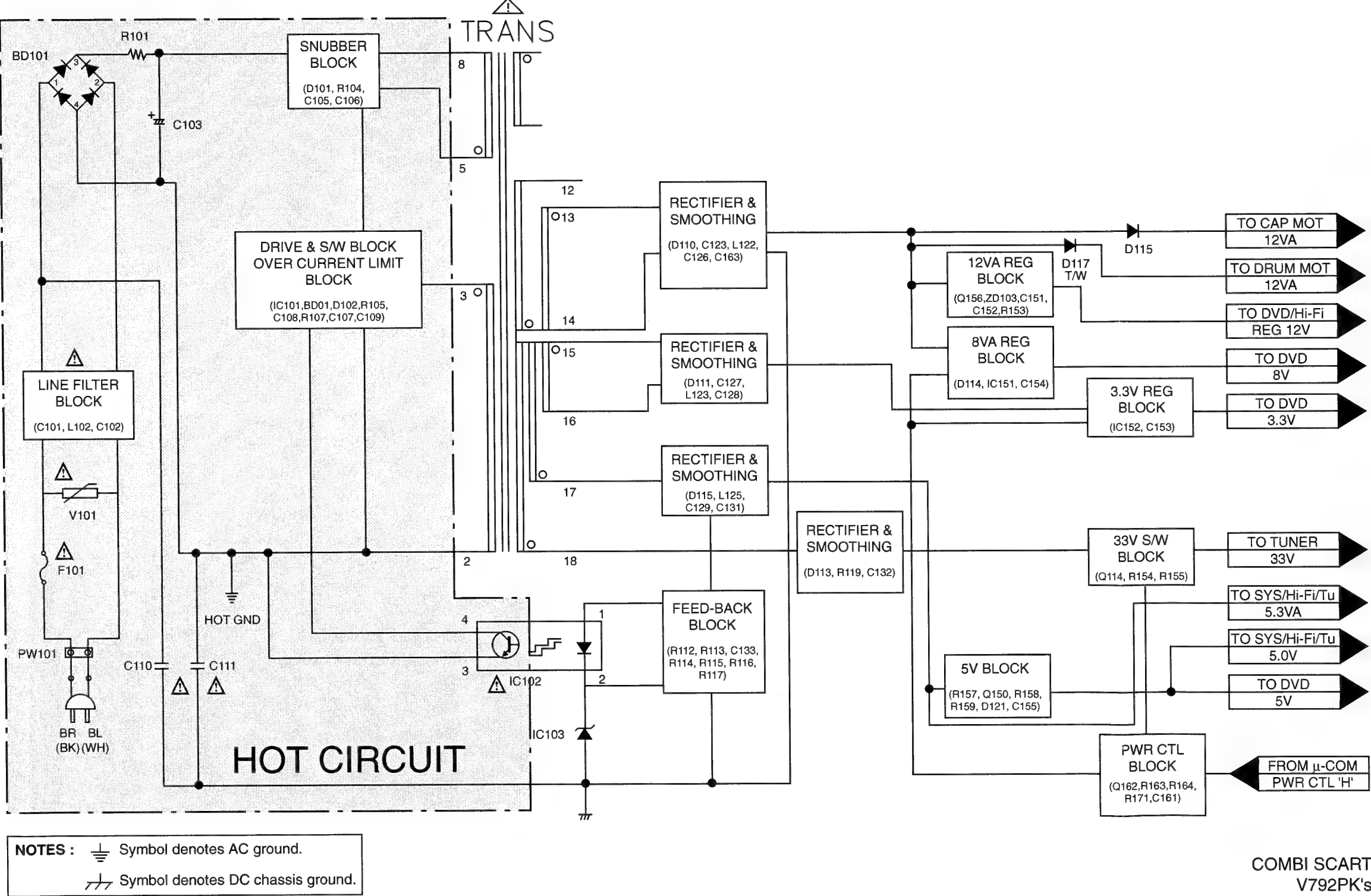
(A) No Picture on the TV screen



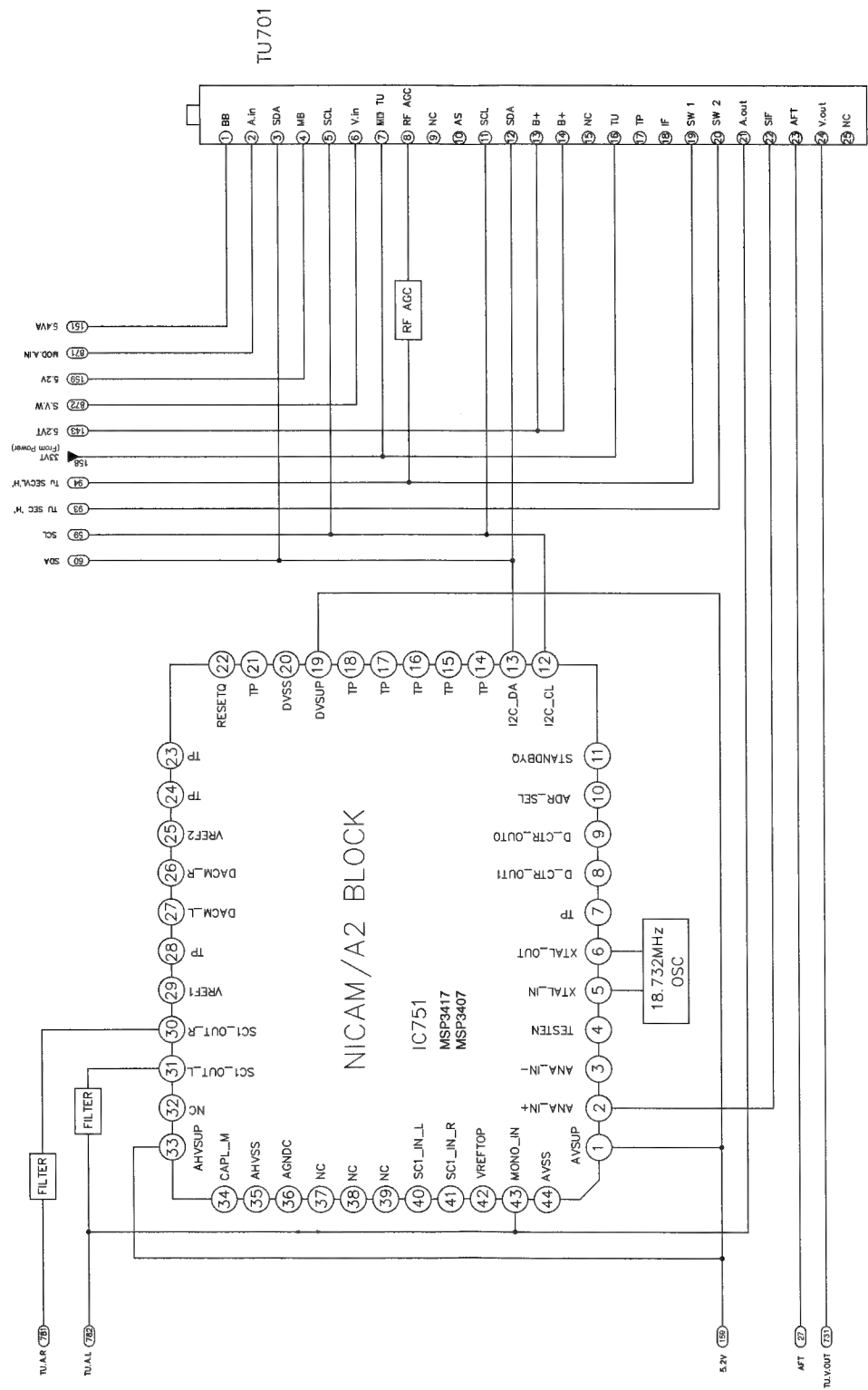
(B) No Sound



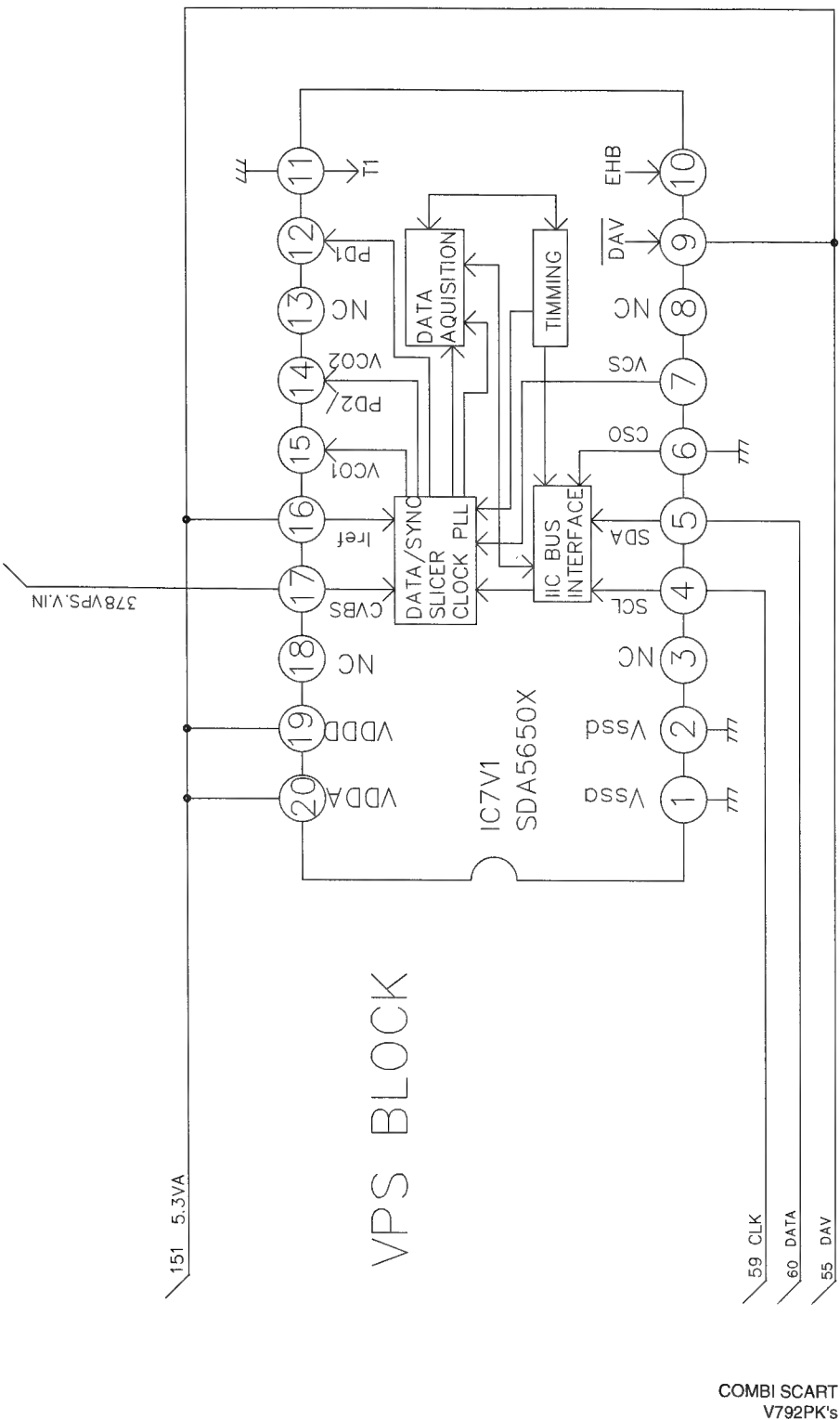
BLOCK DIAGRAMS
1. POWER(SMPS) BLOCK DIAGRAM



2. Tu/IF, NICAM & A2 BLOCK DIAGRAM



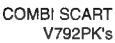
3. VPS BLOCK DIAGRAM



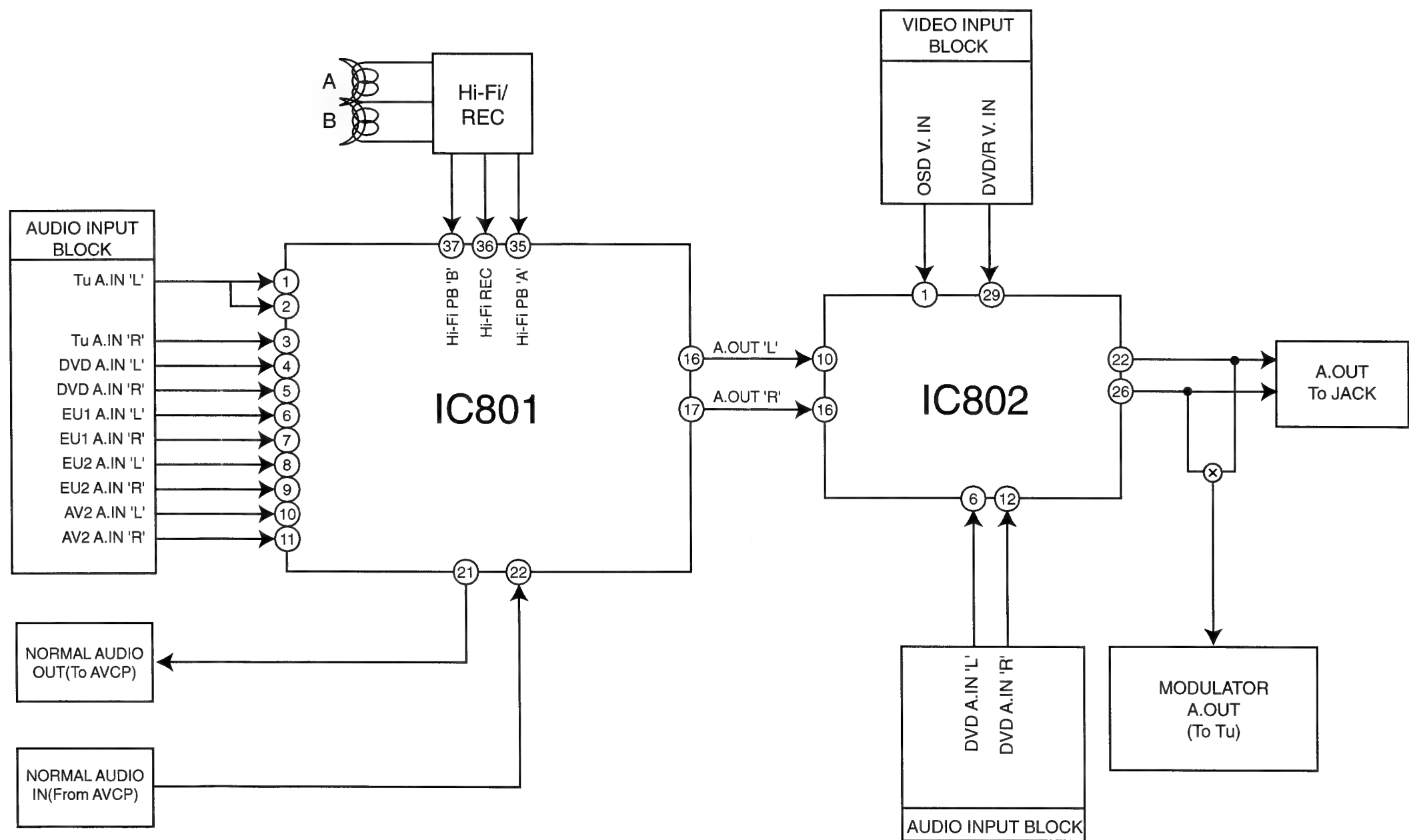
(PB MODE)



3-25

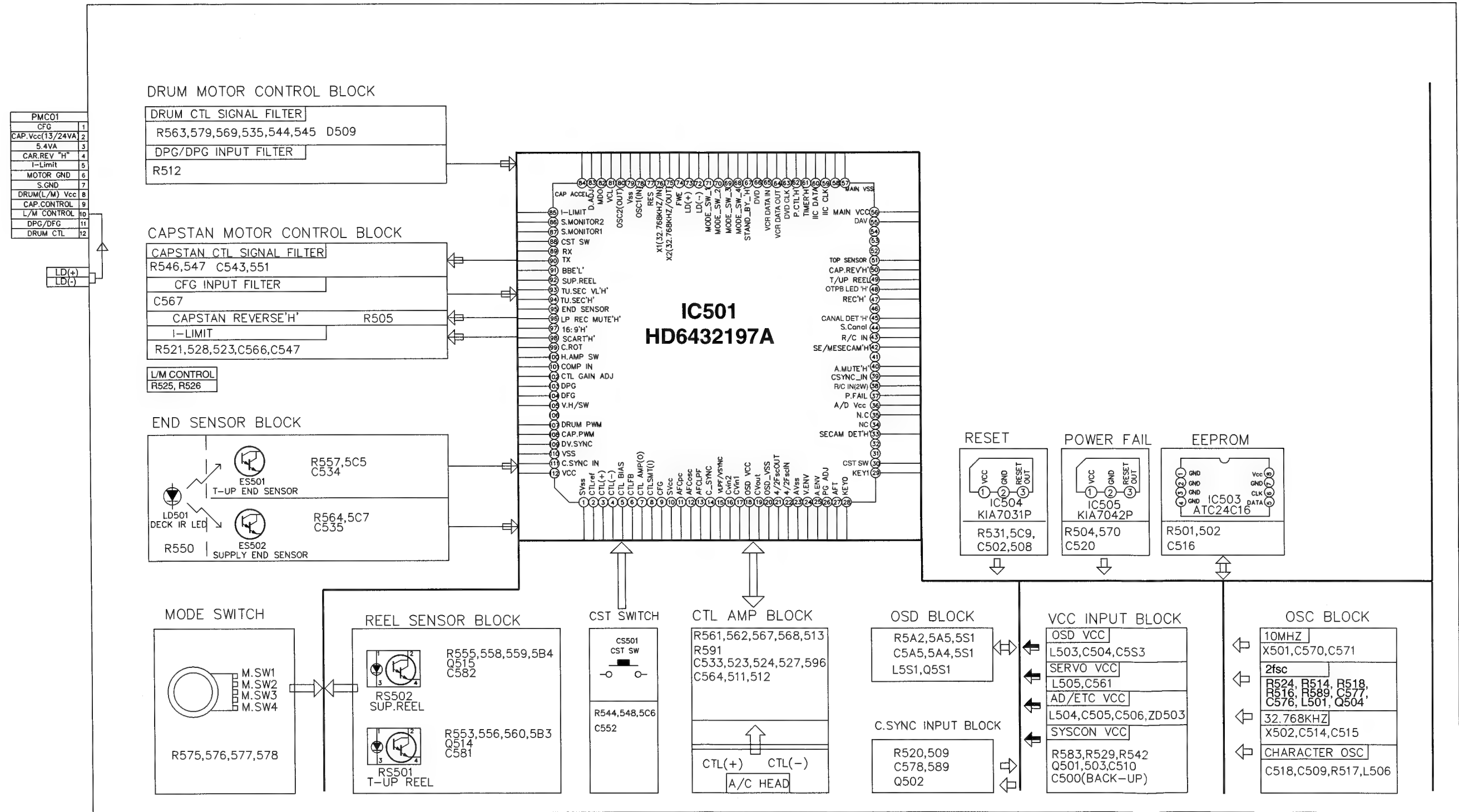


5. Hi-Fi BLOCK DIAGRAM



COMBI SCART
V792PK's

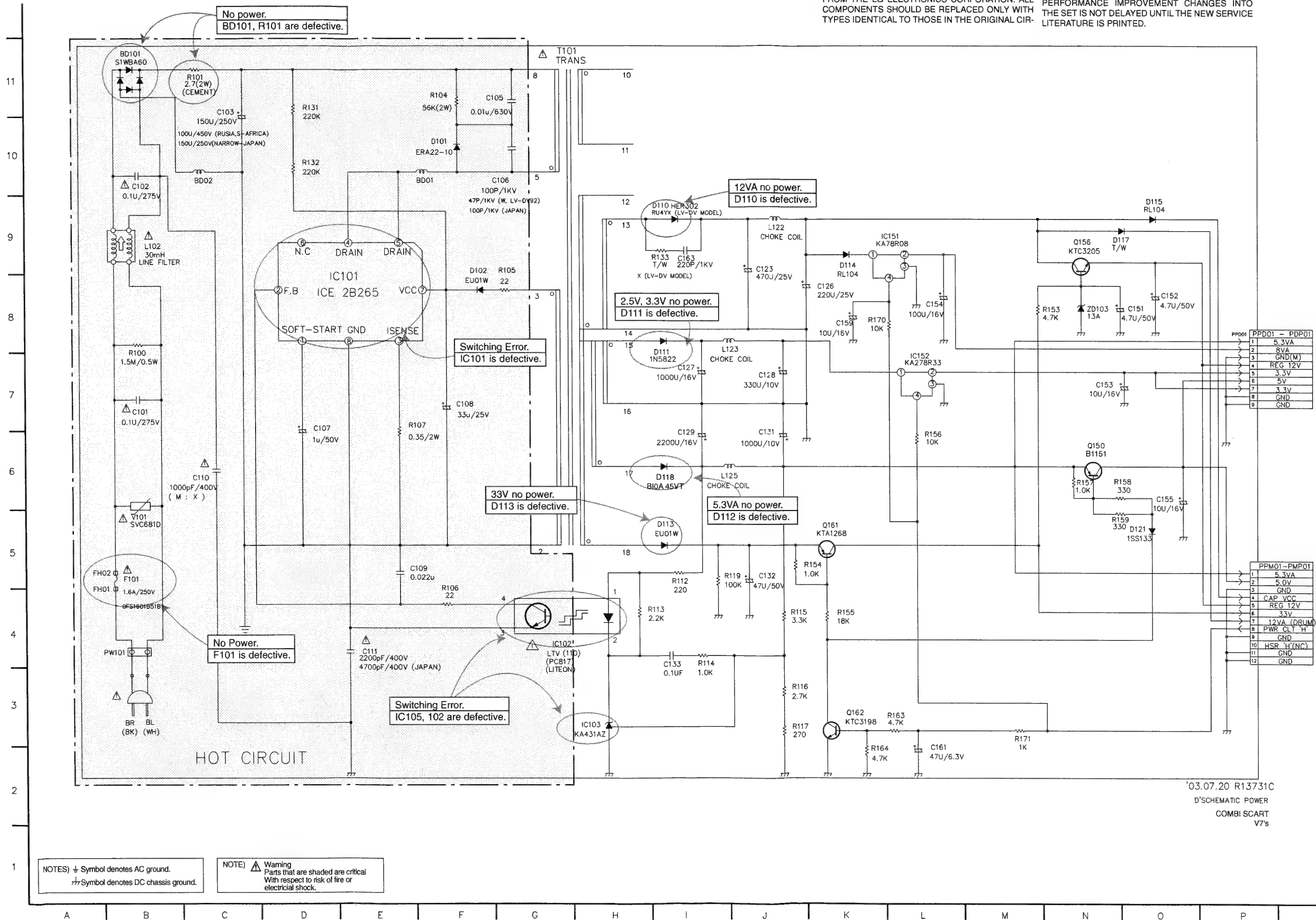
6. SYSTEM BLOCK DIAGRAM



COMBI SCART
V792PK's

CIRCUIT DIAGRAMS

1. POWER(SMPS) CIRCUIT DIAGRAM



IMPORTANT SAFETY NOTICE

WHEN SERVICING THIS CHASSIS, UNDER NO CIRCUMSTANCES SHOULD THE ORIGINAL DESIGN BE MODIFIED OR ALTERED WITHOUT PERMISSION FROM THE LG ELECTRONICS CORPORATION. ALL COMPONENTS SHOULD BE REPLACED ONLY WITH TYPES IDENTICAL TO THOSE IN THE ORIGINAL CIR-

CUIT. SPECIAL COMPONENTS ARE SHADED ON THE SCHEMATIC FOR EASY IDENTIFICATION. THIS CIRCUIT DIAGRAM MAY OCCASIONALLY DIFFER FROM THE ACTUAL CIRCUIT USED. THIS WAY, IMPLEMENTATION OF THE LATEST SAFETY AND PERFORMANCE IMPROVEMENT CHANGES INTO THE SET IS NOT DELAYED UNTIL THE NEW SERVICE LITERATURE IS PRINTED.

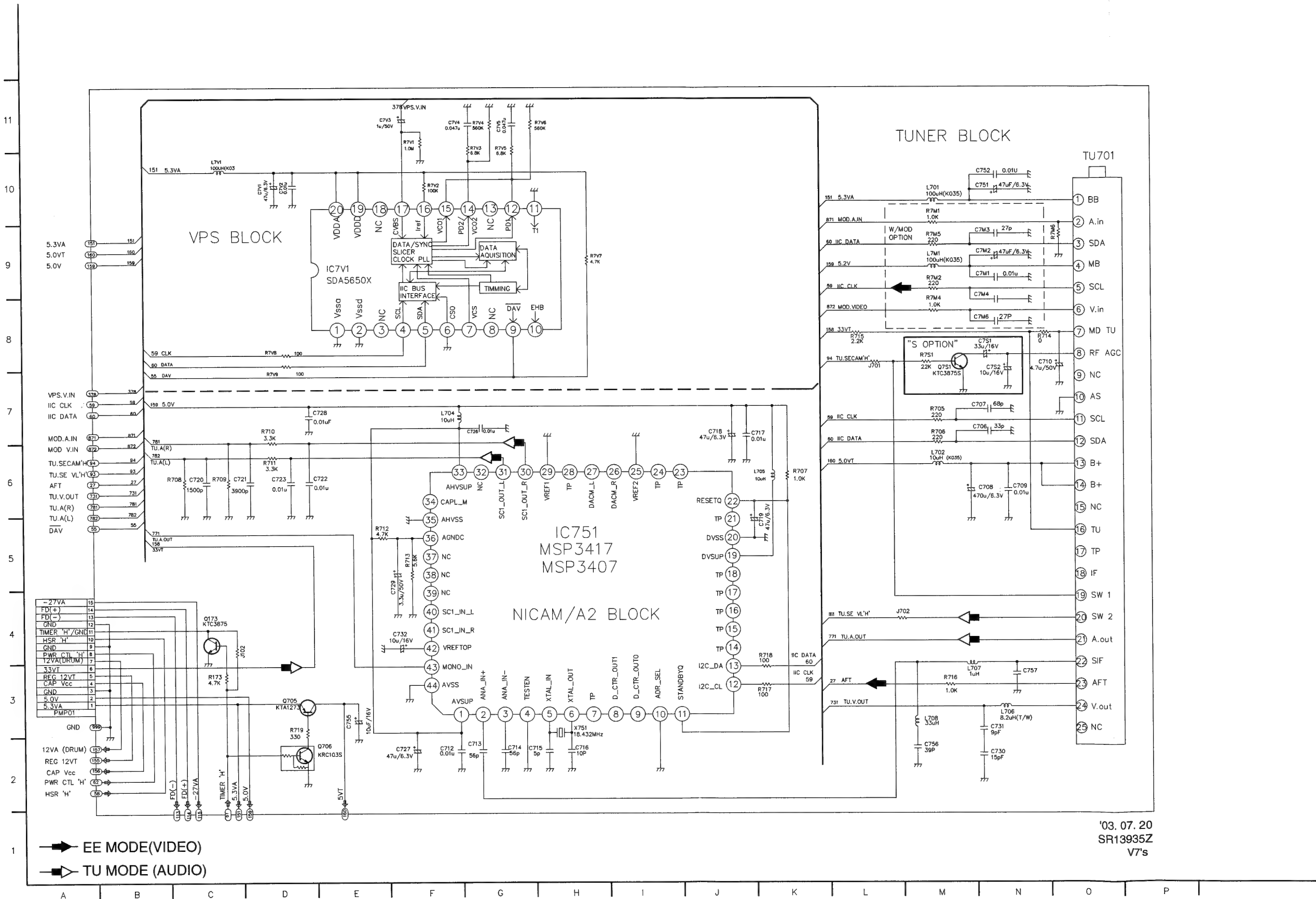
NOTE :

- 1. Shaded(■) parts are critical for safety. Replace only with specified part number.
- 2. Voltages are DC-measured with a digital voltmeter during Play mode.

LOCATION GUIDE

BD01	F10
BD02	C10
BD101	B11
C101	B7
C102	B10
C103	C11
C105	F11
C106	G10
C107	D7
C108	F7
C109	E5
C110	C6
C111	E4
C123	J9
C126	K8
C127	I7
C128	J7
C129	I6
C131	J6
C132	J5
C133	I4
C151	O8
C152	O8
C153	N7
C154	L8
C155	O6
C159	K8
C161	L2
C163	I9
D101	F10
D102	F9
D110	I9
D111	I7
D112	I6
D113	I5
D114	K9
D115	O9
D117	N9
D121	O5
FH01	A4
FH02	A5
IC101	D8
IC102	G4
IC103	H3
IC151	K9
IC152	L7
L102	B9
L122	J9
L123	I8
L124	I6
PPD01	P8
PW101	B4
Q156	N9
Q160	N6
Q161	K5
Q162	K3
R100	B7
R101	C11
R104	F11
R105	G9
R106	F4
R107	E7
R112	I5
R113	H4
R114	I4
R115	J4
R116	J3
R117	J3
R119	I5
R131	D11
R132	D10
R133	I9
R153	N8
R154	J5
R155	K4
R156	L6
R157	N6
R158	N6
R159	N5
R163	L3
R164	K2
R170	K8
R171	M3
T101	G11
V101	B5
ZD103	N8

2. TU/IF, NICAM & A2 CIRCUIT DIAGRAM



A vertical axis with tick marks and labels from 1 to 12. The labels are positioned to the left of the axis line, and the tick marks are horizontal lines extending from the axis.

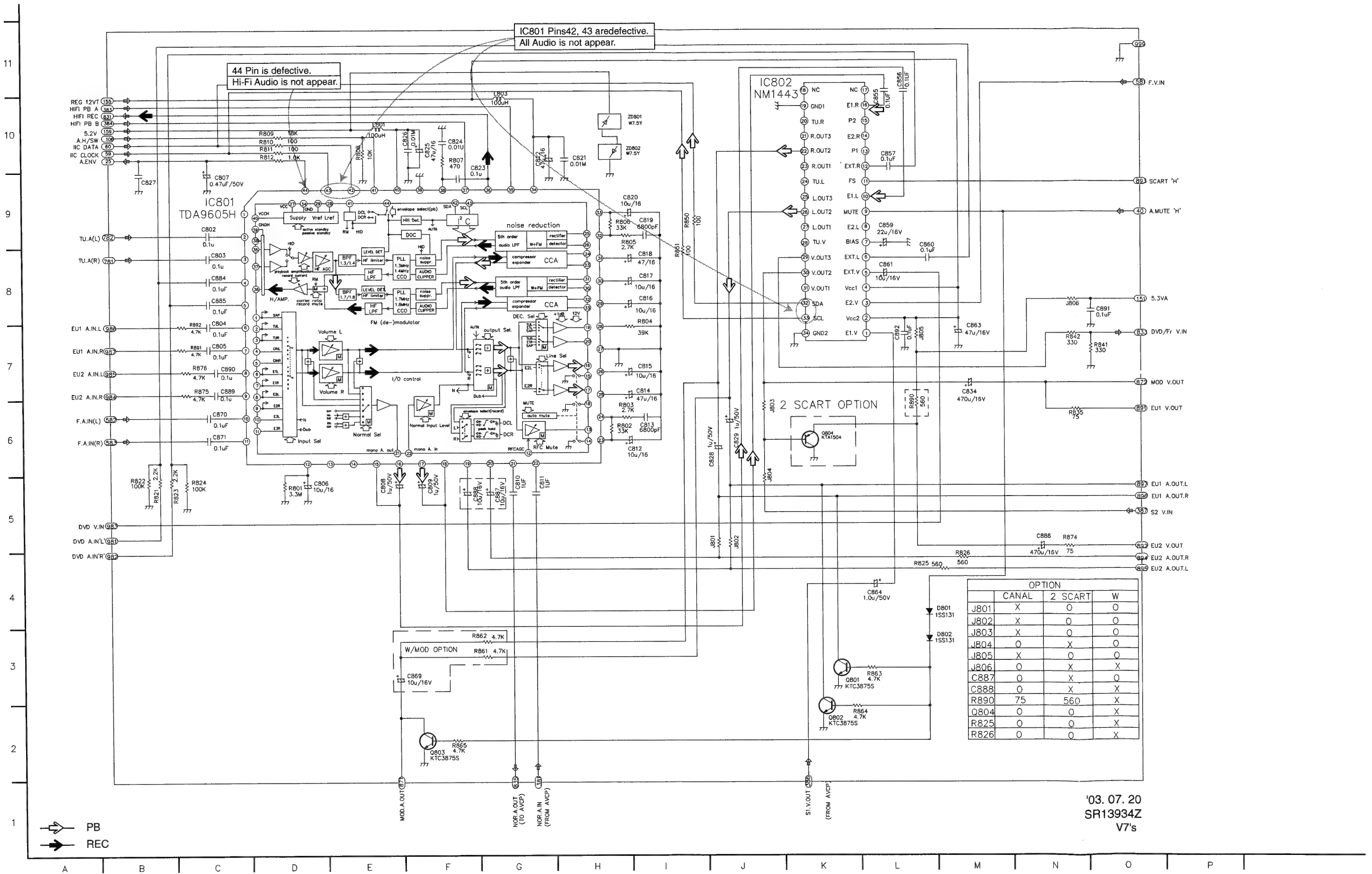


C201	M6	C375	J11	R351	K8
C202	N6	C376	J11	R352	G10
C203	N6	C377	J11	R353	G10
C204	N6	D301	D10	R354	CB
C205	P6	F1301	E3	R3A1	K10
C206	P6	IC201	M8	R3A2	F5
C207	P6	IC301	F10	X301	J5
C208	P9	J301	C10	X302	K5
C209	09	JP05	C10		
C210	09	JP06	C9		
C211	N9	JP07	E10		
C212	N9	JP08	E10		
C213	N9	L201	M10		
C214	O10	L301	F11		
C215	N10	L302	D3		
C216	L10	L303	H3		
C217	D5	L304	I3		
C302	D4	L305	K8		
C303	E5	L306	J11		
C304	F10	L307	C7		
C305	F10	P3D01	A8		
C306	E4	P3D02	A10		
C307	E4	P3D3	A11		
C308	D3	Q301	C5		
C309	E10	Q302	D4		
C310	D3	Q303	E4		
C311	D3	Q304	E4		
C312	E10	Q305	G10		
C313	E3	Q306	C3		
C314	E4	Q308	H10		
C315	I10	Q309	I11		
C316	H9	Q310	M5		
C317	K6	R201	N6		
C318	K6	R202	M9		
C319	F4	R203	N9		
C320	K8	R204	N9		
C321	F10	R301	E5		
C322	K9	R302	G10		
C323	F4	R303	T10		
C324	G5	R304	G10		
C325	K9	R305	D4		
C326	F3	R306	H10		
C327	K8	R307	D4		
C328	D10	R308	E10		
C329	K7	R309	E10		
C330	K7	R310	D4		
C331	G5	R311	E5		
C332	H3	R312	E5		
C333	K7	R313	C3		
C334	K7	R314	D3		
C335	I3	R315	D3		
C336	H3	R316	H9		
C337	I5	R317	E10		
C338	H5	R318	K6		
C339	H3	R319	E3		
C340	I3	R320	E4		
C341	I4	R321	I3		
C342	K6	R322	J4		
C343	K5	R323	K6		
C344	E10	R324	F4		
C345	I5	R325	H10		
C346	D7	R326	F5		
C347	J4	R327	F5		
C348	E9	R328	F4		
C349	J3	R329	G5		
C350	H4	R330	G4		
C351	G10	R331	C3		
C352	D7	R332	H4		
C353	J9	R333	G4		
C355	19	R334	F10		
C356	19	R335	F10		
C357	F10	R336	D9		
C358	F10	R337	D8		
C359	D8	R338	I10		
C360	D8	R339	I10		
C361	CB	R340	F10		
C362	I10	R341	K5		
C363	J10	R342	H10		
C366	K10	R343	H10		
C367	F5	R344	H10		
C368	F4	R345	I11		
C369	E4	R346	H8		
C370	L9	R347	H10		
C371	J10	R348	J5		
C372	J10	R349	F5		
C374	K10	R350	L6		

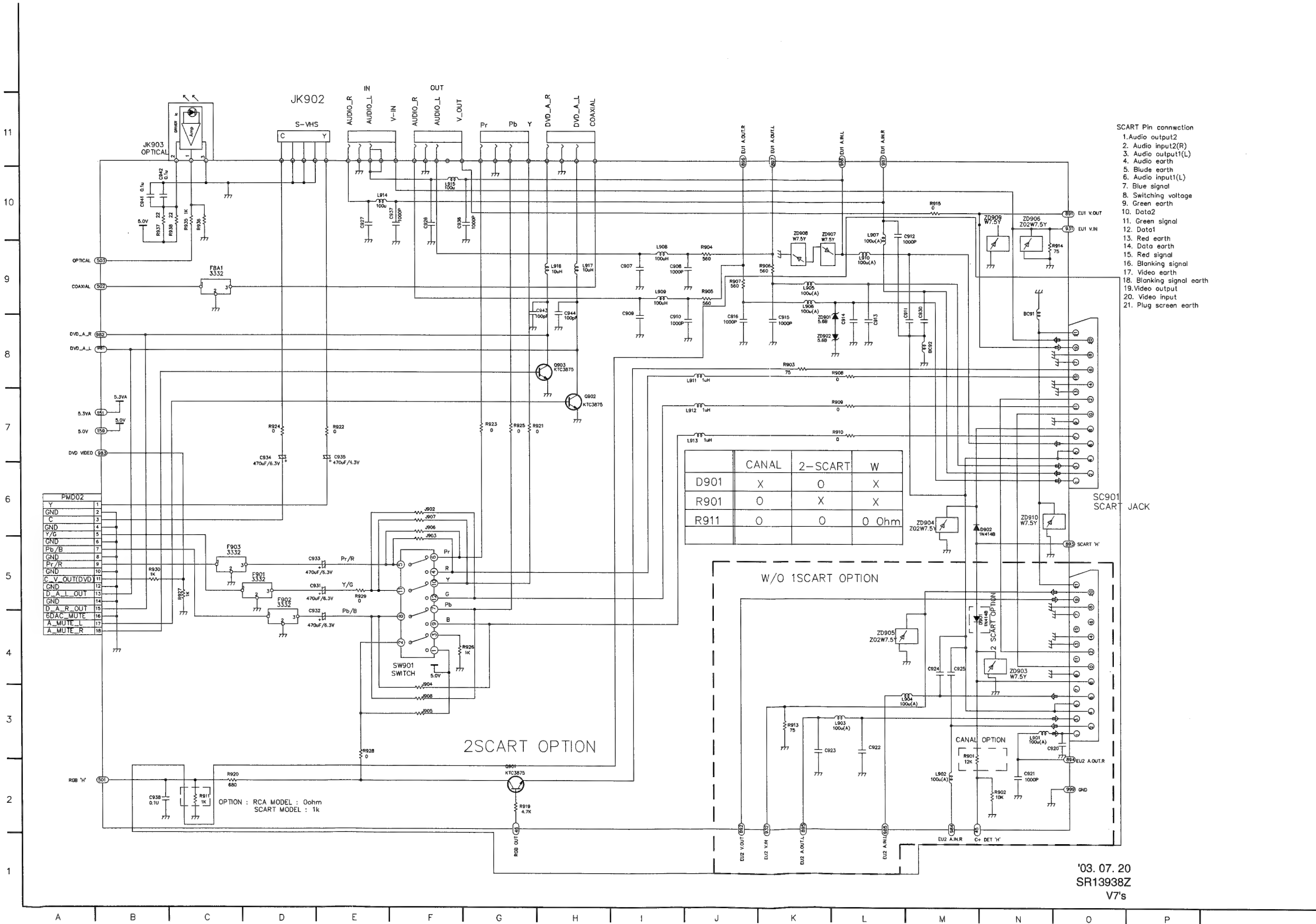
	R347	C216	C371	C375	ASS'Y
S	100	X	82P	0.1UF	6875RY8111A
W	X	T/W	X	X	6875RY8111C
I,P,Y	100	T/W	82P	0.1UF	6875RY8111B

'03.02.12 R13933A
D'SCHEMATIC AVCP/SECAM
VC682CS
(COMBI SCART)

4. Hi-Fi CIRCUIT DIAGRAM

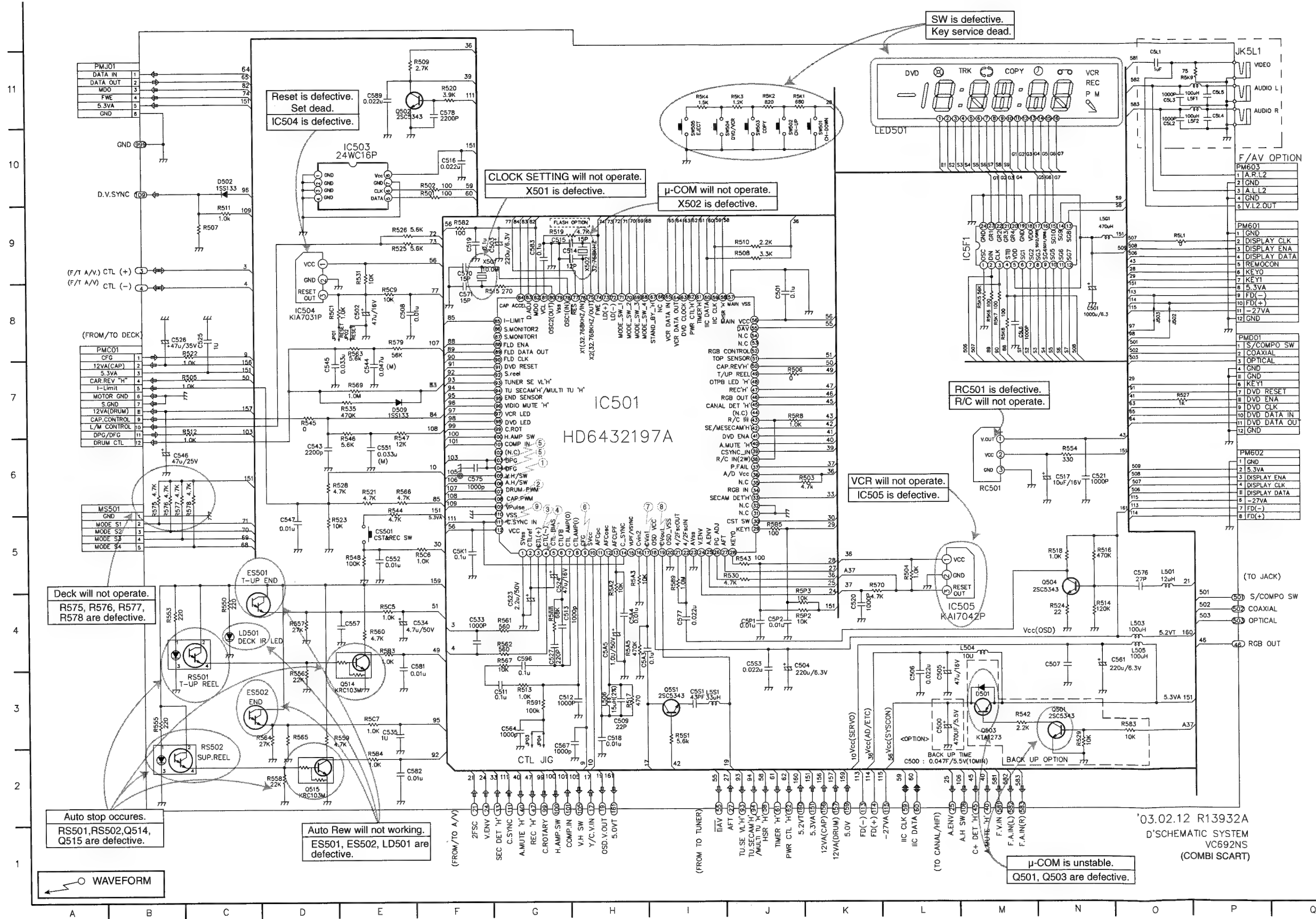


5. SCART(JACK) CIRCUIT DIAGRAM



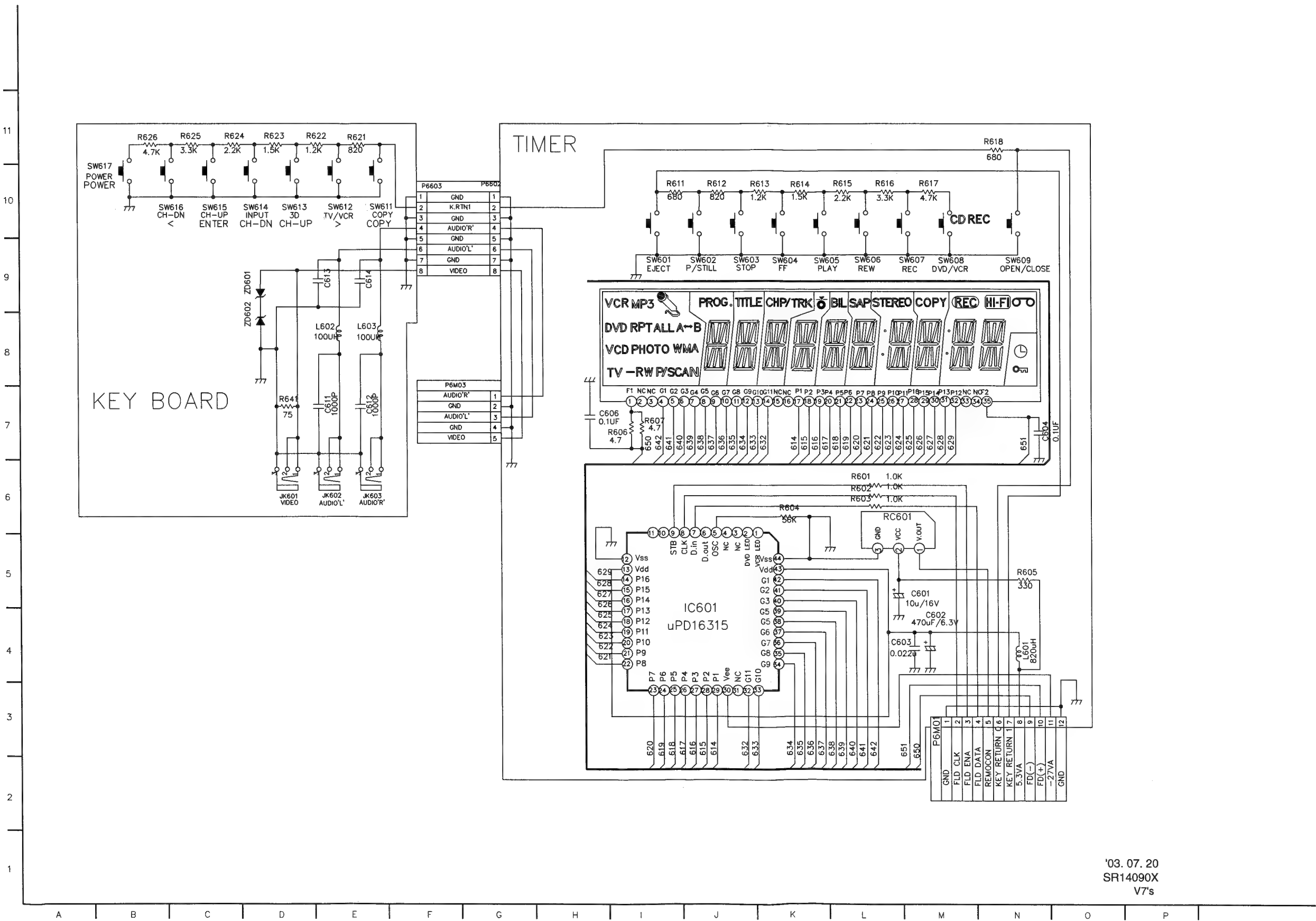
6. SYSTEM CIRCUIT DIAGRAM

LOCATION GUIDE



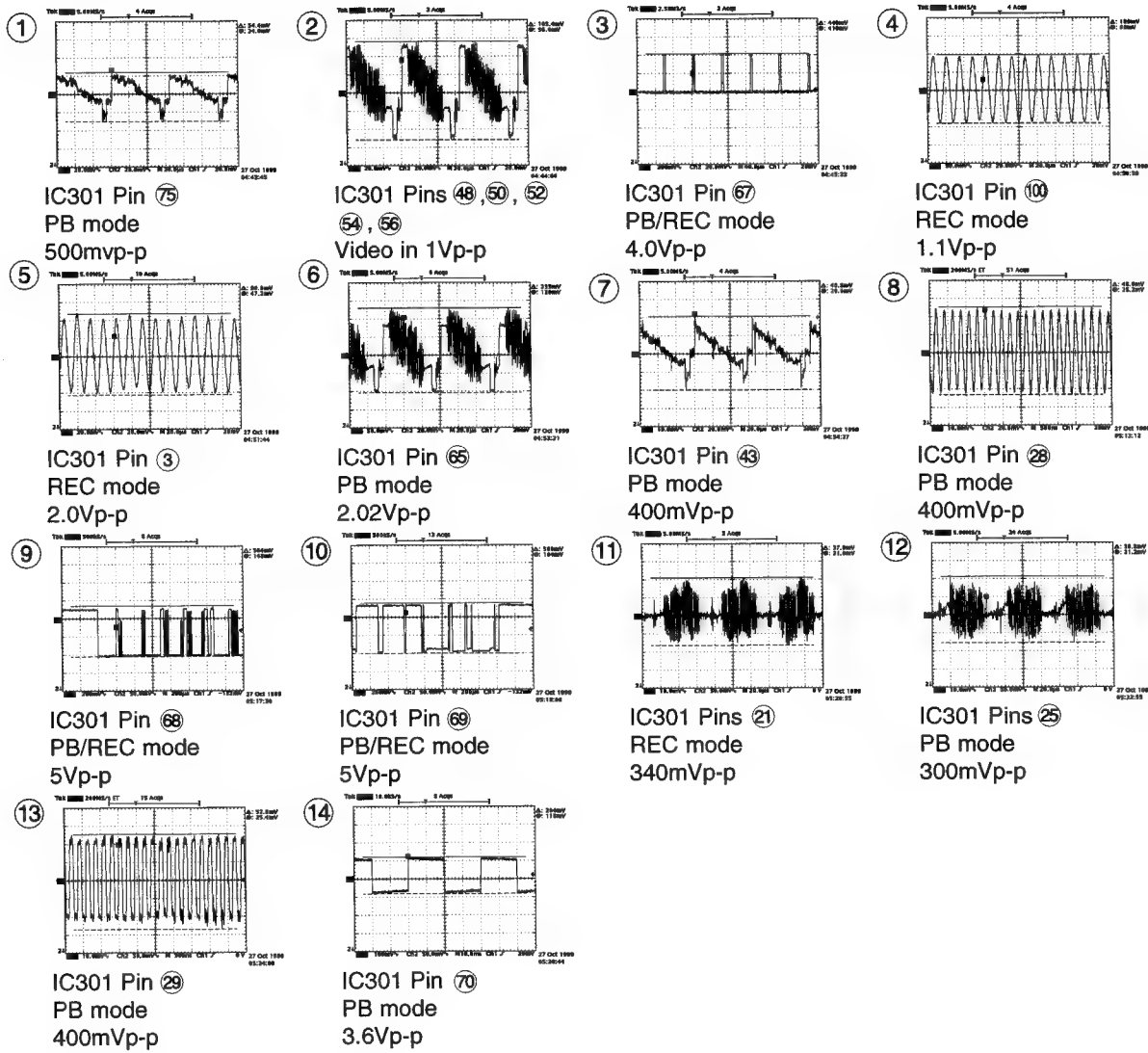
C500	L3	Q515	D2
C501	J8	Q551	I3
C502	E8	R501	F10
C503	G9	R502	F10
C504	J4	R503	J6
C505	L3	R504	L5
C506	L3	R505	C7
C507	N4	R506	J7
C508	E8	R507	C9
C509	H3	R508	J9
C511	G3	R509	F11
C512	G3	R510	J9
C513	G4	R511	C9
C514	G9	R512	C7
C515	G9	R513	G3
C516	F10	R514	N4
C517	N6	R515	F8
C518	H3	R516	N5
C519	F9	R517	H3
C520	K4	R518	N5
C521	N6	R519	G9
C522	G4	R520	F11
C523	C4	R521	E6
C524	C4	R522	C8
C525	C8	R523	D5
C526	B8	R524	N4
C527	G4	R525	E9
C528	F4	R526	E9
C529	E3	R527	O7
C530	E3	R528	D6
C531	E7	R529	N3
C532	D7	R530	I5
C533	D5	R531	E8
C534	D5	R532	E7
C535	E6	R533	M3
C536	E6	R534	J5
C537	E4	R535	E6
C538	N4	R536	D7
C539	G3	R537	E6
C540	G2	R538	E6
C541	F8	R539	C4
C542	F8	R540	C4
C543	F8	R541	B4
C544	O5	R542	N6
C545	O5	R543	B3
C546	O5	R544	B3
C547	O5	R545	D3
C548	O5	R546	D3
C549	O5	R547	D4
C550	O5	R548	D2
C551	O5	R549	D3
C552	O5	R550	E4
C553	O5	R551	E4
C554	O5	R552	E4
C555	O5	R553	E4
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C567	O5	R565	E4
C568	O5	R566	E4
C569	O5	R567	E4
C570	O5	R568	E4
C571	O5	R569	E4
C572	O5	R570	E4
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C579	O5	R577	E4
C580	O5	R578	E4
C581	O5	R579	E4
C582	O5	R580	E4
C583	O5	R581	E4
C584	O5	R582	E4
C585	O5	R583	E4
C586	O5	R584	E4
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C623	O5	R621	E4
C624	O5	R622	E4
C625	O5	R623	E4
C626	O5	R624	E4
C627	O5	R625	E4
C628	O5	R626	E4
C629	O5	R627	E4
C630	O5	R628	E4
C631	O5	R629	E4
C632	O5	R630	E4
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C634	O5	R632	E4
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C667	O5	R665	E4
C668	O5	R666	E4
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C679	O5	R677	E4
C680	O5	R678	E4
C681	O5	R679	E4
C682	O5	R680	E4
C683	O5	R681	E4
C684	O5	R682	E4
C685	O5	R683	E4
C686	O5	R684	E4
C687	O5	R685	E4
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C691	O5	R689	E4
C692	O5	R690	E4
C693	O5	R691	E4
C694	O5	R692	E4
C695	O5	R693	E4
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C698	O5	R696	E4
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C700	O5	R698	E4
C701	O5	R699	E4
C702	O5	R700	E4
C703	O5	R701	E4
C704	O5	R702	E4
C705	O5	R703	E4
C706	O5	R704	E4
C707	O5	R705	E4
C708	O5	R706	E4
C709	O5	R707	E4
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C711	O5	R709	E4
C712	O5	R710	E4
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C719	O5	R717	E4
C720	O5	R718	E4
C721	O5	R719	E4
C722	O5	R720	E4
C723	O5	R721	E4
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C725	O5	R723	E4
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C727	O5	R725	E4
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C731	O5	R729	E4
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C738	O5	R736	E4
C739	O5	R737	E4
C740	O5	R738	E4
C741	O5	R739	E4
C742	O5	R740	E4
C743	O5	R741	E4
C744	O5	R742	E4
C745	O5	R743	E4
C746	O5	R744	E4
C747	O5	R745	E4
C748	O5	R746	E4
C749	O5	R747	E4
C750	O5	R748	E4
C751	O5	R749	E4
C752	O5	R750	E4
C753	O5	R751	E4
C754	O5	R752	E4
C755	O5	R753	E4
C756	O5	R754	E4
C757	O5	R755	E4
C758	O5	R756	E4
C759	O5	R757	E4
C760	O5	R758	E4
C761	O5	R759	E4
C762	O5	R760	E4
C763	O5	R761	E4
C764	O5	R762	E4
C765	O5	R763	E4
C766	O5	R764	E4
C767	O5	R765	E4
C768	O5	R766	E4
C769	O5	R767	E4
C770	O5	R768	E4
C771	O5	R769	E4
C772	O5	R770	E4
C773	O5	R771	E4
C774	O5	R772	E4
C775	O5	R773	E4
C776	O5	R774	E4
C777	O5	R775	E4
C778	O5	R776	E4
C779	O5	R777	E4
C780	O5	R778	E4
C781	O5	R779	E4
C782	O5	R780	E4
C783	O5	R781	E4
C784	O5	R782	E4
C785	O5	R783	E4
C786	O5	R784	E4
C787	O5	R785	E4
C788	O5	R786	E4
C789	O5	R787	E4
C790	O5	R788	E4
C791	O5	R789	E4
C792	O5	R790	E4
C793	O5	R791	E4
C794	O5	R792	E4
C795	O5	R793	E4
C796	O5	R794	E4
C797	O5	R795	E4
C798	O5	R796	E4
C799	O5	R797	E4
C800	O5	R798	E4
C801	O5	R799	E4
C802	O5	R800	E4
C803	O5	R801	E4
C804	O5	R802	E4
C805	O5	R803	E4
C806	O5	R804	E4
C807	O5	R805	E4
C808	O5	R806	E4
C809	O5	R807	E4
C810	O5	R808	E4
C811	O5	R809	E4
C812	O5	R810	E4
C813	O5	R811	E4
C814	O5	R812	E4
C815	O5	R813	E4
C816	O5	R814	E4
C817	O5	R815	E4
C818	O5	R816	E4
C819	O5	R817	E4
C820	O5	R818	E4
C821	O5	R819	E4
C822	O5	R820	E4
C823	O5	R821	E4
C824	O5	R822	E4
C825	O5	R823	E4
C826	O5	R824	E4
C827	O5	R825	E4
C828	O5	R826	E4
C829	O5	R827	E4
C830	O5	R828	E4
C831	O5	R829	E4
C832	O5	R830	E4
C833	O5	R831	E4
C834	O5	R832	E4
C835	O5	R833	E4
C836	O5	R834	E4
C837	O5	R835	E4
C838	O5	R836	E4
C839	O5	R837	E4
C840	O5	R838	E4
C841	O5	R839	E4
C842	O5	R840	E4
C843	O5	R841	E4
C844	O5	R842	E4
C845	O5	R843	E4
C846	O5	R844	E4
C847	O5	R845	E4
C848	O5	R846	E4
C849	O5	R847	E4
C850	O5	R848	E4
C851	O5	R849	E4
C852	O5	R850	E4
C853	O5	R851	E4
C854	O5	R852	E4
C855	O5	R853	E4
C856	O5	R854	E4
C857	O5	R855	E4
C858	O5	R856	E4
C859	O5	R857	E4
C860	O5	R858	E4
C861	O5	R859	E4
C862	O5	R860	E4
C863	O5	R861	E4
C864	O5	R862	E4
C865	O5	R863	E4
C866	O5	R864	E4
C867	O5	R865	E4
C868	O5	R866	E4
C869	O5	R867	E4
C870	O5	R868	E4
C871	O5	R869	E4
C872	O5	R870	E4
C873	O5	R871	E4
C874	O5	R872	E4

7. TIMER CIRCUIT DIAGRAM

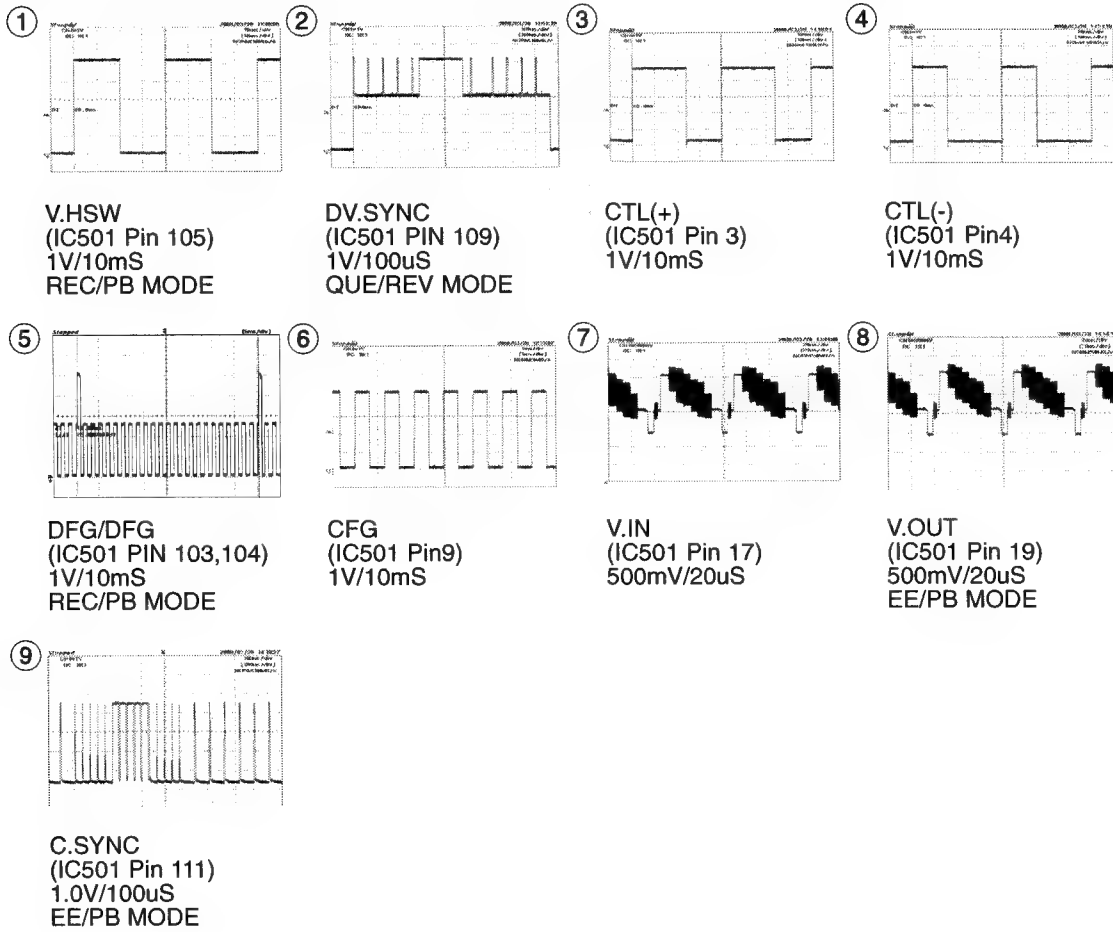


WAVEFORM & VOLTAGE SHEET

★ IC301 Oscilloscope Waveform



* IC501 Waveform Photographs



• CIRCUIT VOLTAGE CHART

MODE PIN NO.	EE	PB	REC
IC201			
1	2.36 V	2.35 V	2.32 V
2	2.4 V	2.35 V	2.4 V
3	3.5 V	3.49 V	3.5 V
4	2.43 V	2.41 V	2.38 V
5	0.002 V	0.005 V	0.006 V
6	0.4 V	3.7 V	0.39 V
7	0.003 V	0.003 V	0.003 V
8	0.003 V	0.003 V	0.003 V
9	2.87 V	2.85 V	2.81 V
10	2.36 V	2.35V	2.32 V
11	3.16 V	3.13 V	3 V
12	3 V	1.7 V	3.03 V
13	4 V	4 V	4 V
14	2.3 V	2.3 V	2.25 V
15	2.98 V	1.78 V	2.93 V
16	3.2 V	3.2 V	3.2 V
17	0.15 V	3.86 V	0.017 V
18	0.124 V	3.38 V	0.127 V
19	2.23 V	2.23 V	2.23 V
20	3 V	3.3 V	3.3 V
21	1.84 V	2.34 V	2.35 V
22	4.71 V	0.002 V	0.007 V
23	4.72 V	4.69 V	4.64 V
24	4.72 V	4.69 V	4.63 V
25	2.37 V	2.26 V	2.37 V
26	2.37 V	2.25 V	2.36 V
27	3 V	2.86 V	3 V
28	0.182 V	0.187 V	0.182 V
29	0.46 V	0.62 V	0.85 V
30	1.95 V	1.94 V	1.91 V
IC301			
1	4.8 V	4.84 V	0.99 V
2	0.11 V	0.014 V	0.81 V
3	2.16 V	2.16 V	2.03 V
4	0.69 V	0.63 V	1.73 V
5	2.15 V	2.15 V	2.26 V
6	2.16 V	2.15 V	2.06 V
7	2.15 V	2.15 V	2.1 V
8	2.15 V	2.15 V	2.1 V
9	2.14 V	2.14 V	2.73 V
10	2.16 V	2.16 V	2.66 V
11	2.23 V	2.27 V	2.8 V
12	1.56 V	0.002 V	2.0 V
13	2.14 V	2.14 V	0.095 V
14	0.022 V	0.022 V	2.05 V
15	2.14 V	2.14 V	2.08 V
16	4.85 V	0.146 V	4.68 V
17	2.14 V	2.14 V	2.09 V
18	4.8 V	4.86 V	4.73 V
19	3.88 V	3.92 V	2.72 V
20	2.31 V	0.003 V	0.006 V
21	3 V	1.68 V	3.02 V
22	3.2 V	2.62 V	3.2 V
23	3.2 V	2.55 V	3.2 V

MODE PIN NO.	EE	PB	REC
24	4.85 V	4.85 V	4.75 V
25	0.121 V	3.4 V	0.19 V
26	1.65 V	1.25 V	1.6 V
27	2.16 V	2.1 V	2.14 V
28	3.75 V	3.7 V	3.66 V
29	2.43 V	2.46 V	2.34 V
30	0.002 V	0.002 V	0.005 V
31	4.76 V	4.58 V	4.72 V
32	4.68 V	4.58 V	4.71 V
33	2.88 V	2.86 V	2.8 V
34	0.061 V	0.06 V	0.061 V
35	3.02 V	2.34 V	2.99 V
36	3.5 V	2.84 V	3.4 V
37	1.7 V	1.76V	1.61 V
38	2 V	2.05 V	1.94 V
39	8.65 V	8.6 V	8.38 V
40	0.002 V	0.003 V	0.006 V
41	0.002 V	0.003 V	0.006 V
42	4.8 V	4.8 V	4.68 V
43	2.4 V	2.67 V	2.17 V
44	13.8 mV	3.86 V	0.03 V
45	2.5 V	2.52 V	2.55 V
46	2.6 V	2.78 V	2.64 V
47	4.14 V	4.14 V	4.14 V
48	3.3 V	3.09 V	3.30 V
49	2.97 V	2.93 V	3.69 V
50	1.93 V	1.92 V	1.92 V
51	0.002 V	0.003 V	0.005 V
52	1.93 V	1.93 V	1.92 V
53	2.33 V	2.33 V	2.34 V
54	1.93 V	1.92 V	1.92 V
55	5.14 V	5.14 V	5.13 V
56	2.24 V	2.57 V	2.22 V
57	1.95 V	2.28 V	0.006 V
58	3 V	2.55 V	3.01 V
59	2.9 V	2.93 V	2.92 V
60	1.47 V	1.54 V	1.48 V
61	1.8 V	2.44 V	1.79 V
62	0.087 V	0.09 V	0.088 V
63	1.8 V	2.55 V	1.78 V
64	0.002 V	0.003 V	0.006 V
65	1.71 V	0.002 V	1.69 V
66	0.002 V	0.003 V	0.006 V
67	0.005 V	0.07 V	0.44 V
68	4.8 V	4.8 V	4.78 V
69	4.7 V	4.7 V	4.7 V
70	7.75 V	2.55 V	5.55 V
71	5.55 V	0.008 V	0.008 V
72	4.84 V	4.8 V	4.72 V
73	2.21 V	2.2 V	2.24 V
74	2.45 V	2.6 V	2.43 V
75	2.38 V	0.72 V	2.38 V
76	2.4 V	0.81 V	2.39 V
77	1.58 V	1.6 V	1.48 V
78	2.44 V	3.35 V	2.33 V

MODE PIN NO.	EE	PB	REC
79	1.73 V	1.67 V	2.51 V
80	0.98 V	0.98 V	4.46 V
81	1.1 V	1.13 V	1.15 V
82	0.003 V	0.004 V	0.006 V
83	1.65 V	1.03 V	1.41 V
84	0.258 V	2.5 V	0.014 V
85	0.002 V	0.003 V	1.38 V
86	0.251 V	0.014 V	1.98 V
87	0.77 V	0.78 V	0.78 V
88	0.77 V	0.78 V	0.77 V
89	0.77 V	0.78 V	0.77 V
90	0.77 V	0.78 V	0.77 V
91	4.85 V	4.83 V	4.74 V
92	2.1 mV	0.004 V	0.006 V
93	1.7 V	1.72 V	3.94 V
94	1.7 V	1.71 V	3.93 V
95	1.7 V	1.71 V	3.92 V
96	1.7 V	1.71 V	3.94 V
97	0.002 V	0.005 V	0.006 V
98	2.16 V	2.16 V	2.21 V
99	2.16V	2.16 V	2.25 V
100	2.16 V	2.16 V	2.31 V
IC5F1			
1	2.33 V	2.31 V	2.3 V
2	4.98 V	4.9 V	4.9 V
3	5 V	5 V	5 V
4	4.96 V	4.9 V	4.9 V
5	4.89 V	4.85 V	4.8 V
6	0.64 V	0.59 V	0.6 V
7	0.64 V	0.59 V	0.6 V
8	0.64 V	0.61 V	0.6 V
9	0.73 V	0.93 V	0.96 V
10	1 V	0.92 V	0.91 V
11	0.72 V	0.63 V	0.92 V
12	1.83 V	1.84 V	1.8 V
13	0.73 V	0.75 V	0.72 V
14	1.26 V	1.22 V	1.2 V
15	1.26 V	1.23 V	1.1 V
16	1.65 V	1.63 V	1.54 V
17	1.58 V	1.58 V	1.42 V
18	4.89 V	4.8 V	4.8 V
19	0.002 V	0.003 V	0.003 V
20	1.75 V	1.63 V	1.5 V
21	1.7 V	1.7 V	1.5 V
22	1.78 V	1.71 V	1.5 V
23	1.73 V	1.6 V	1.41 V
24	0.002 V	0.003 V	0.003 V
IC751			
1	5.1 V	5.1 V	5.08 V
2	1.5 V	1.5 V	1.51 V
3	1.5 V	1.5 V	1.5 V
4	0.002 V	0.003 V	0.003 V
5	2.5 V	2.46 V	2.46 V
6	2.44 V	2.44 V	2.43 V
7	1.84 V	1.89 V	2.06 V

MODE PIN NO.	EE	PB	REC
8	1.86 V	0.004 V	0.004 V
9	1.86 V	0.004 V	0.004 V
10	0.002 V	0.003 V	0.003 V
11	5.12 V	5.12 V	5.11 V
12	4.8 V	4.8 V	4.8 V
13	4.7 V	4.75 V	4.7 V
14	1.75V	2.6 V	2.59 V
15	1.77 V	2.6 V	2.6 V
16	1.77 V	5 V	5 V
17	1.75 V	1.5 V	2.06 V
18	1.75 V	1.5 V	2 V
19	5 V	5 V	5 V
20	0.003 V	0.003 V	0.003 V
21	1.88 V	1.58 V	2 V
22	5.1 V	5.1 V	5.11 V
23	0.002 V	0.005 V	0.004 V
24	0.002 V	0.005 V	0.005 V
25	0.002 V	0.003 V	0.003 V
26	0.05 V	0.051 V	0.051 V
27	0.05 V	0.05 V	0.05 V
28	0.002 V	0.003 V	0.005 V
29	0.002 V	0.003 V	0.003 V
30	2.78 V	2.77 V	2.76 V
31	2.78 V	1.9 V	2.76 V
32	0.002 V	0.003 V	0.005 V
33	5.1 V	5.09 V	5.08 V
34	4.06 V	4.08 V	4.06 V
35	0.003 V	0.003 V	0.003 V
36	2.77 V	2.76 V	2.76 V
37	0.002 V	0.002 V	0.002 V
38	0.002 V	0.003 V	0.002 V
39	0.002 V	0.003 V	0.002 V
40	2.76 V	2.75 V	2.75 V
41	2.76 V	2.75 V	2.75 V
42	2.59 V	2.59 V	2.6 V
43	2.35 V	2.35 V	2.35 V
44	0.003 V	0.003 V	0.003 V
IC501			
1	0.002 V	0.002 V	0.002 V
2	2.56 V	2.55 V	2.55 V
3	2.56 V	2.55 V	2.9 V
4	2.56 V	2.55 V	2 V
5	2.56 V	2.55 V	2.55 V
6	2.56 V	2.56 V	2.55 V
7	2.64 V	2.63 V	2.6 V
8	2.54 V	2.53 V	2.52 V
9	0.064 V	2.27 V	2.26 V
10	5.13 V	5.12 V	5.11 V
11	1.69 V	1.68 V	1.66 V
12	1.7 V	1.7 V	1.67 V
13	2.32 V	2 V	2.3 V
14	0.48 V	0.08 V	0.53 V
15	1.28 V	1.29 V	1.36 V
16	1.84 V	1.83 V	1.8 V
17	2.32 V	3 V	2.26 V

MODE PIN NO.	EE	PB	REC
18	4.7 V	4.7 V	4.6 V
19	2.19 V	3 V	2.13 V
20	0.01 V	0.009 V	0.01 V
21	2.2 V	2.2 V	2.16 V
22	2.32 V	2.3 V	2.26 V
23	0.01 V	0.009 V	0.01 V
24	0.3 V	2.84 V	0.012 V
25	0.08 V	3.4 V	0.068 V
26	5.14 V	5.13 V	5.12 V
27	4.2 V	4.16 v	3.93 V
28	5.13 V	5.13 V	5.11 V
29	5.13 V	5.13 V	5.11 V
30	0.004 V	0.002 V	0.003 V
31	0.002 V	0.002 V	0.002 V
32	0.002 V	0.002 V	0.002 V
33	0.18 V	0.18 V	0.18 V
34	1.37 V	1.3 V	1.42 V
35	5.14 V	5.13 V	5.1 V
36	5.14 V	5.13 V	5.1 V
37	4.74 V	4.73 V	4.7 V
38	4.74 V	4.75 V	4.7 V
39	2.45 V	4.9 V	2.33V
40	5 V	0.003 V	4.96 V
41	2.28 V	1.55 V	1.42 V
42	0.003 V	0.003 V	0.004 V
43	4.76 V	4.75 V	4.73 V
44	0.003 V	0.003 V	0.004 V
45	(-)0.001 V	(-)0.001 V	(-)0.001 V
46	0.003 V	0.003 V	0.004 V
47	0.003 V	0.003 V	5 V
48	0.003 V	0.003 V	0.004 V
49	5.14 V	0-5 V	0.005-5 V
50	5.1 V	0.003 V	0.004 V
51	4.38 V	0.03 V	0.035 V
52	0.031 V	5.06 V	0.038 V
53	0.003 V	0.003 V	0.004 V
54	5.1 V	5 V	5 V
55	5.1 V	5.13 V	5.11 V
56	5.1 V	5.1 V	5.1 V
57	0.002 V	0.002 V	0.002 V
58	0.003 V	0.004 V	0.004 V
59	4.8 V	4.8 V	4.8 V
60	4.7 V	4.7 V	4.9 V
61	4.7 V	5 V	5 V
62	5 V	5 V	5 V
63	1.8 V	1.3 V	1.68 V
64	5.1 V	5 V	5 V
65	1.78 V	5.1 V	1.66 V
66	5.1 V	5.1 V	5.08 V
67	0.004 V	4.4 V	5.08 V
68	0.001 V	5.1 V	0.005 V
69	0.001 V	5.1 V	5.12 V
70	5.14 V	5.1 V	5.12 V
71	5.14 V	0.001 V	0.001 V
72	0.028 V	0.028 V	0.029 V

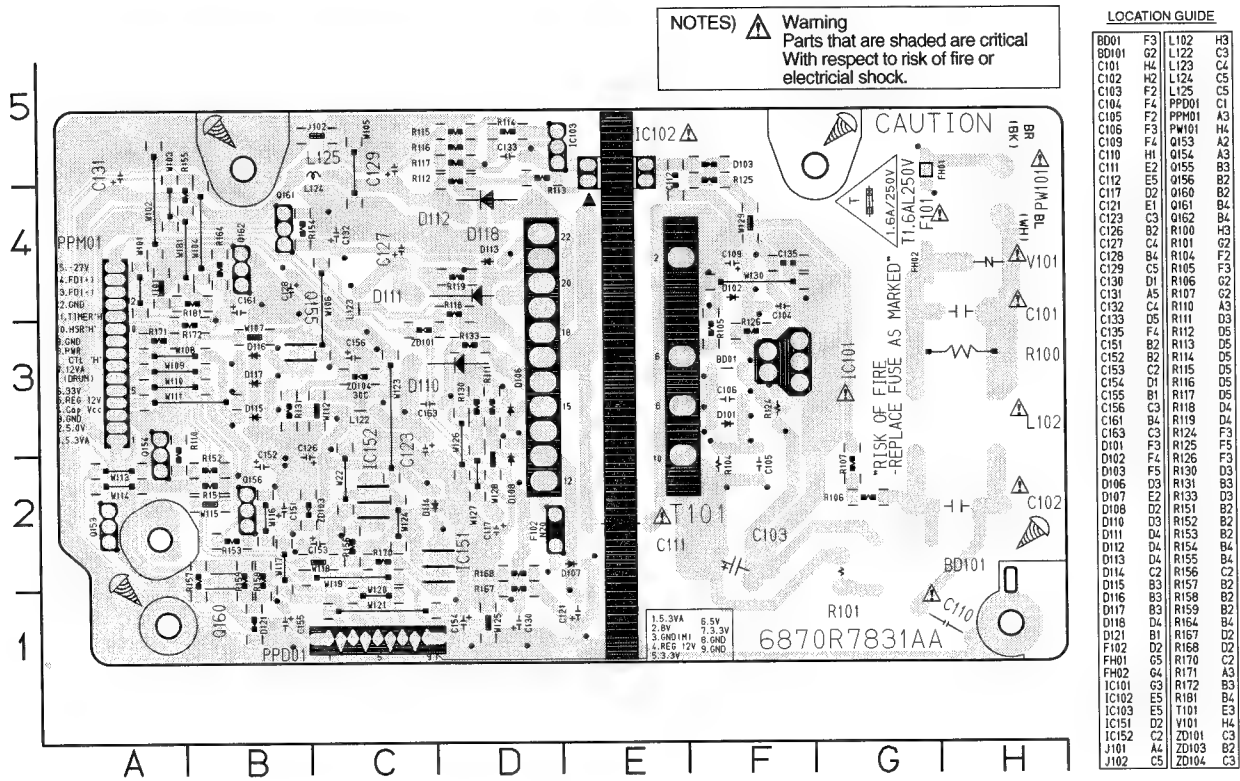
MODE PIN NO.	EE	PB	REC
73	5 V	5.1 V	5.04 V
74	0.001 V	0.001 V	0.002 V
75	1.5 V	1.93 V	1.48 V
76	1.7 V	2.02 V	1.44 V
77	5.1 V	5.1 V	5.08 V
78	2.5 V	2.51 V	2.52 V
79	0.001 V	0.002 V	0.002 V
80	2.53 V	2.5 V	2.5 V
81	3.2 V	3.2 V	3.19 V
82	5.12 V	5.1 V	5.1 V
83	0.172 V	2.68 V	2.55 V
84	0.004 V	2.4 V	2.69 V
85	0.019 V	3.4 V	3.44 V
86	2.55 V	2.55 V	2.56 V
87	5.11 V	3.1 V	2.29 V
88	5.11 V	4.95 V	4.9 V
89	5.11 V	4.97 V	4.9 V
90	5.11 V	5 V	4.98 V
91	5.11 V	5.1 V	5.09 V
92	5.12 V	0.008-0.05 V	0.006 V
93	0.005 V	0.005 V	0.006 V
94	0.005 V	0.005 V	0.013 V
95	4.38 V	0.05 V	0.012 V
96	0.005 V	0.005 V	0.006 V
97	5.11 V	5.1 V	5.09 V
98	0.005 V	5.3 V	0.006 V
99	5.11 V	2.55 V	2.52 V
100	0.005 V	0.005 V	0.006 V
101	1.51 V	2.6 V	1.31 V
102	0.005 V	0.006 V	0.006 V
103	0.099 V	1.36 V	1.38 V
104	0.099 V	1.36 V	1.36 V
105	5.11 V	2.55 V	2.53 V
106	0.005 V	2.54 V	2.53 V
107	0.005 V	2.75 V	2.75 V
108	0.005 V	2.81 V	2.79 V
109	0.049 V	50.6 V	0.05 V
110	0.002 V	0.002 V	0.002 V
111	0.48 V	0.6 V	0.55 V
112	5.12 V	5.11 V	5.1 V
IC801			
1	3.8 V	3.81 V	3.82 V
2	3.8 V	3.82 V	3.82 V
3	3.8 V	3.82 V	3.82 V
4	3.8 V	3.82 V	3.82 V
5	3.8 V	3.82 V	3.82 V
6	3.8 V	3.82 V	3.82 V
7	3.8 V	3.82 V	3.82 V
8	3.8 V	3.82 V	3.82 V
9	3.8 V	3.82 V	3.82 V
10	3.8 V	3.82 V	3.82 V
11	3.8 V	3.82 V	3.82 V
12	0.054 V	~	0.048 V
13	3.87 V	3.8 V	3.99 V
14	0.008 V	0.003 V	0.011 V

1. MAIN P.C.BOARD

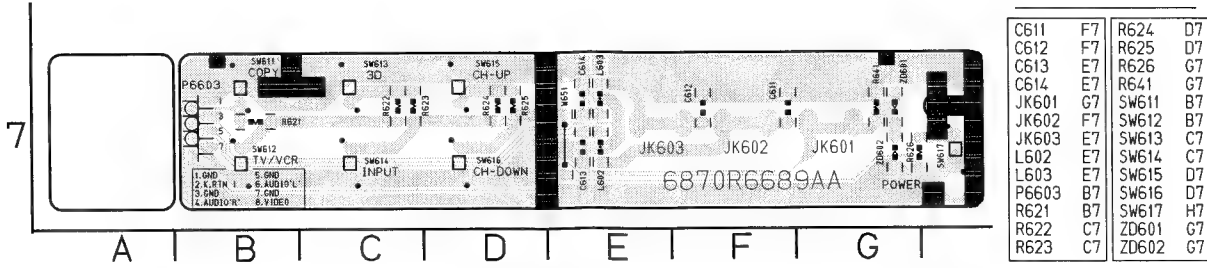


LOCATION GUIDE																		
BC91	A10	C362	D9	C551	J10	C863	C11	J802	D10	O304	F6	R351	C8	R5B4	L4	R8B1	D11	
BC92	A17	C363	D8	C552	J10	C861	C10	J803	D10	O305	D9	R352	D10	R5B3	L9	R8B2	D11	
C201	A4	C366	C8	C553	J11	C864	E10	J804	D10	O306	E7	R353	D10	R5B5	K1	R8B3	C10	
C202	A7	C367	D7	C554	J11	C865	E10	J805	D10	O307	E6	R354	D10	R5B6	L1	R8B4	C10	
C203	C3	C368	E7	C707	C2	C870	G9	J806	D10	O309	D9	R354	D9	R5B5	L11	R8B4	C10	
C204	C3	C369	E7	C708	D1	C871	G9	J902	B11	O310	C6	R365	D9	R5C6	N11	R874	B10	
C205	C3	C370	C8	C709	C1	C884	F9	J903	B11	O501	K8	R375	D9	R5C7	H12	R875	G9	
C206	C3	C371	D8	C710	C2	C885	G9	J904	B11	O502	K12	R342	D7	R5C9	L11	R876	G9	
C207	C3	C372	D7	C711	C1	C886	G9	J905	B11	O503	K12	R343	D7	R5C9	L11	R876	G9	
C208	C3	C374	C8	C713	G1	C887	G8	J906	B11	O504	J11	R502	L12	R5C2	L12	R891	D10	
C209	C3	C375	D8	C714	G1	C888	G8	J907	B11	O514	L4	R503	K11	R5K1	N6	R892	D10	
C210	C3	C376	D8	C715	G1	C889	G9	J908	B11	O515	K9	R504	K11	R5K2	N6	R891	B9	
C211	B4	C377	D9	C716	G1	C890	G9	J909	B11	O551	J10	R505	H3	R5K5	N6	R902	B9	
C212	B9	C378	D9	C717	G1	C891	G9	J910	B11	O552	K12	R506	H3	R5K6	N11	R903	B10	
C213	C5	C381	L11	C718	F1	C892	E10	J903	A12	O706	D2	R507	N8	R5K7	N9	R904	B5	
C214	C3	C502	L11	C719	F1	C907	B5	L201	C3	O751	C2	R508	L11	R5K7	N9	R905	B5	
C215	C3	C503	L9	C720	G2	C908	B5	L301	E9	O801	C10	R509	K11	R5K6	N9	R906	B10	
C216	C3	C504	M2	C721	G2	C909	B5	L302	E5	O802	C10	R510	L11	R5K8	N9	R907	B11	
C217	C3	C505	M9	C722	G2	C910	B5	L303	E5	O803	C10	R511	L11	R5K9	N9	R908	B11	
C230	E6	C506	L9	C723	G2	C911	B8	L304	D7	O804	D10	R512	G3	R5L1	N6	R909	B11	
C233	E7	C507	K8	C726	G2	C912	B8	L305	C6	O901	C11	R513	J10	R5P2	N7	R910	B9	
C304	D9	C508	L10	C727	G1	C913	B7	L306	D9	O902	B7	R514	J11	R5P3	N7	R911	B11	
C305	D8	C509	L10	C728	H2	C914	A10	L307	E7	O903	B7	R515	L10	R5R8	K11	R913	B10	
C306	E6	C511	J10	C729	G2	C915	B10	L308	E7	O904	B7	R516	J11	R5S1	J10	R914	B10	
C307	F7	C512	J10	C730	E2	C916	B11	L503	J11	R201	D4	R517	J10	R5R2	L10	R915	B10	
C308	E6	C513	K10	C731	E2	C920	B8	L504	L8	R202	C3	R518	J11	R705	C2	R919	C11	
C309	E9	C514	L10	C732	G1	C921	B8	L505	L8	R203	C4	R519	L11	R706	C2	R920	B11	
C310	E6	C515	L9	C733	B2	C922	B8	L506	L8	R204	C4	R520	K12	R707	F2	R921	B6	
C311	E5	C516	M12	C732	B2	C923	B8	L507	NF1	N2	O101	E8	N2	R708	L12	R922	A12	
C312	E8	F17	T7	C755	E3	C924	B9	L5F2	N2	R302	E10	R522	J10	R709	C2	R923	B6	
C313	E6	L10	C736	E	C925	B8	L5G1	N9	R303	O10	R523	K3	R710	C2	R924	A12		
C314	E7	C519	L10	C737	E1	C926	B5	L5G1	I11	R304	E10	R524	J11	R702	C2	R925	B6	
C315	E11	C520	B11	C738	B4	C927	B6	L5G2	I11	R305	F7	R525	L7	R712	C2	R926	B11	
C316	D9	C521	N8	C740	C1	C928	B6	L5G3	NF1	N2	O101	E8	N2	R713	C2	R927	C11	
C317	C8	C523	B11	C743	B2	C931	B12	L704	H7	R307	F6	R527	L12	R714	B2	R928	B11	
C318	C7	C524	J11	C744	B2	C932	C12	L705	F1	R308	E8	R528	K8	R715	B2	R929	B11	
C319	E7	C525	G3	C746	B2	C933	C11	L706	E2	R309	E9	R529	K8	R716	E2	R938	C11	
C320	E4	C526	G3	C747	B2	C934	C11	L707	E2	R310	E9	R530	K8	R717	F1	R939	C11	
C321	E9	C527	J10	C752	C2	C935	B12	L708	E1	R311	E8	R531	K11	R718	F1	R940	B11	
C322	E9	C533	J9	C7V1	M4	C936	B5	L7M1	B1	R312	E7	R535	G3	R719	E2	R937	B12	
C323	E7	C534	N8	C7V2	M4	C937	B4	L7M1	M4	R313	E6	R542	K3	R721	B1	R938	B12	
C324	E5	C535	H2	C7V3	M5	C938	B1	L8V1	F10	R314	E6	R543	K11	R7M2	B2	R5C01	B8	
C325	E10	C536	L9	C7V4	M5	C939	B1	L8V2	F10	R315	E6	R544	K11	R7M3	B2	R5C02	B8	
C326	E7	C544	G3	C7V5	L5	C942	B12	L901	B8	R316	D8	R545	J8	R7M5	B2	R5C02	L9	
C327	C8	C545	G3	C802	F9	C943	B6	L902	B8	R317	E8	R546	J8	R7M6	B2	C5C01	A9	
C328	E8	C546	D4	C803	F9	C944	B7	L903	B8	R318	C8	R547	K3	R7M7	C2	C5C01	N7	
C329	C8	C547	K8	C804	F9	C550	N11	L904	B8	R319	E7	R548	N11	R7V1	B5	C5C02	N6	
C330	E8	C551	B9	C805	F9	C551	N11	L905	B8	R320	F7	R549	N11	R7V2	L5	C5C03	N6	
C331	D6	C552	N11	C806	F9	D501	N8	L906	B10	R321	D7	R553	L4	R7V3	L5	C5C04	N5	
C332	D7	C557	L2	C807	F10	D502	N8	L907	B8	R322	D7	R554	L7	R7V4	L5	C5C05	N4	
C333	C8	C561	L9	C808	F9	D509	G3	L908	B6	R323	C6	R555	L9	R7V5	L5	C5C01	B11	
C334	C9	C564	L9	C809	F9	D510	G3	L909	B6	R324	E7	R556	L4	R7V6	L5	T901	A1	
C335	D7	C565	F7	C810	E5	D502	D10	L910	F7	R325	D7	R557	L9	R7V7	L5	C5C06	N4	
C336	D6	C570	L10	C811	G8	D501	B9	L911	B11	R326	E7	R558	K9	R7V8	M4	X302	C7	
C337	D7	C571	L10	C812	G8	D902	B9	L912	A11	R327	E7	R559	L9	R7V9	M4	X501	L10	
C338	D7	C575	K10	C813	G8	E550	I11	L913	B9	R328	D7	R560	L9	R801	E8	X502	B11	
C339	D7	C576	N9	C814	G8	E502	I12	L914	B6	R329	D7	R561	K9	R802	E8	X503	C11	
C340	D7	C577	K11	C815	G8	E4	L12	L915	B6	R330	D7	R562	L9	R803	F10	X501	A1	
C341	D7	C578	L12	C816	G8	F901	C12	L916	B7	R331	F7	R563	G3	R804	B6	Z0502	N4	
C342	C7	C581	L4	C817	G8	F902	C12	L917	B7	R332	C6	R564	H12	R805	F8	Z0503	N4	
C343	C7	C582	K9	C818	F8	F903	C11	L0501	J1	R333	C6	R565	H12	R806	F8	Z0504	N4	
C344	K3	C583	K3	C819	F8	F904	C11	L0502	N11	R334	E8	R566	K6	R807	F8	Z0505	N3	
C345	F7	C589	K12	C820	F8	JC201	G3	K3	M550	I3	R335	E8	R567	K3	R808	F8	Z0506	N4
C346	E8	C596	J10	C821	F8	JC301	D8	P3001	F8	R336	E8	R568	K10	R809	F9	Z0801	F10	
C347	F7	C5A3	J10	C822	F8	JC501	K10	P3002	F6	R337	F10	R569	K10	R810	F9	Z0802	F10	
C348	E10	C5A4	K10	C823	F8	JC503	K11	P3003	G12	R338	D9	R570	K11	R811	F9	Z0901	B10	
C349	E11	C5A5	N11	C824	F10	JC504	K12	P3004	G12	R339	D8	R571	L3	R812	F9	Z0902	A10	
C350	E6	C5G1	N9	C825	F10	JC505	K12	P3005	G12	R340	E8	R572	L3	R813	F9	Z0903	B10	
C351	E10	C5K1	K10	C826	F9	JC5F1	N9	PH603	A4	R341	C6	R577	L3	R822	F9	Z0904	B9	
C352	E8	C5K8	N4	C827	F9	JC5F1	G2	PH603	A4	R342	D9	R578	L3	R823	F9	Z0905	B10	
C353	D9	C5L1	N2	C828	D11	JC701	M10	PH101	J12	R343	D9	R579	N9	R824	D9	Z0906	B10	
C354	D7	C5L2	N2	C829	D11	JC702	M10	PH101	J12	R344	D9	R580	N9	R825	D9	Z0907	B7	
C355	D9	C5L3	N2	C834	D10	JC801	M10	PH101	L12	R345	D9	R583	N9	R826	D9	Z0908	B10	
C356	D9	C5L4	N2	C855	E10	J102	E4	PH103	G6	R346	D6	R589	K11	R835	D10	Z0909	B10	
C357	D9	C5L5	N2	C856	E10	J303	D9	PH173	E4	R347	D10	R591	J10	R836	D10	Z0910	A12	
C358	E10	C5L6	N9	C857	F10	J701	F3	O301	E6	R348	D7	R5A2	K10	R840	F10	Z0911	B10	
C359	E11	C5P1	N11	C859	F10	J702	F3	O302	E6	R349	D7	R5A3	K10	R841	F10	Z0912	B10	
C360	F10	C5P2	M11	C860	F10	J801	C10	O303	F6	R350	D9	R5A5	K10	R851	E10	Z0913	B10	

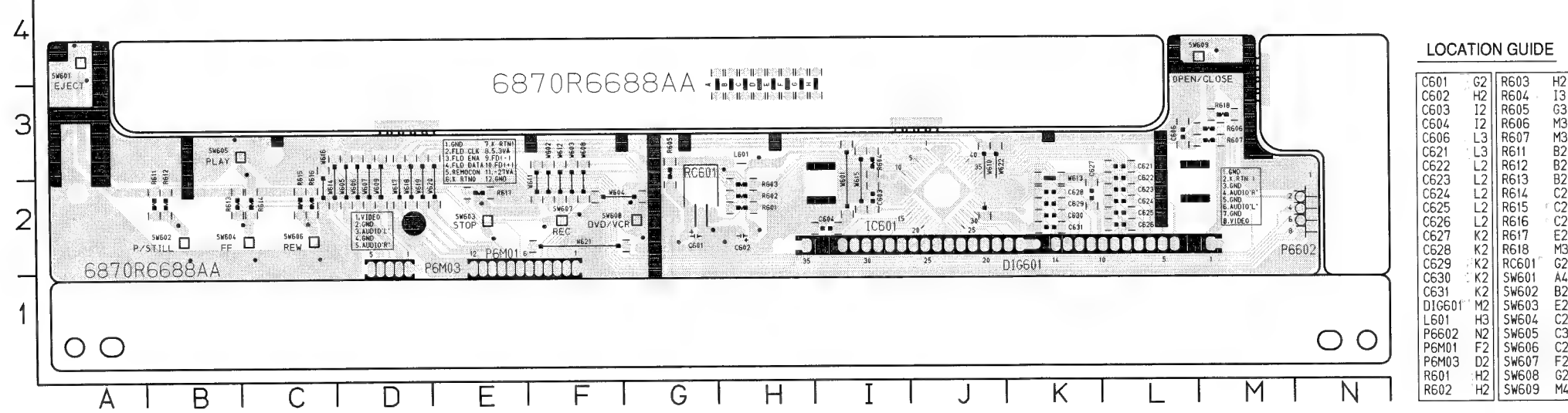
2. SMPS P.C.BOARD



4. KEY P.C.BOARD



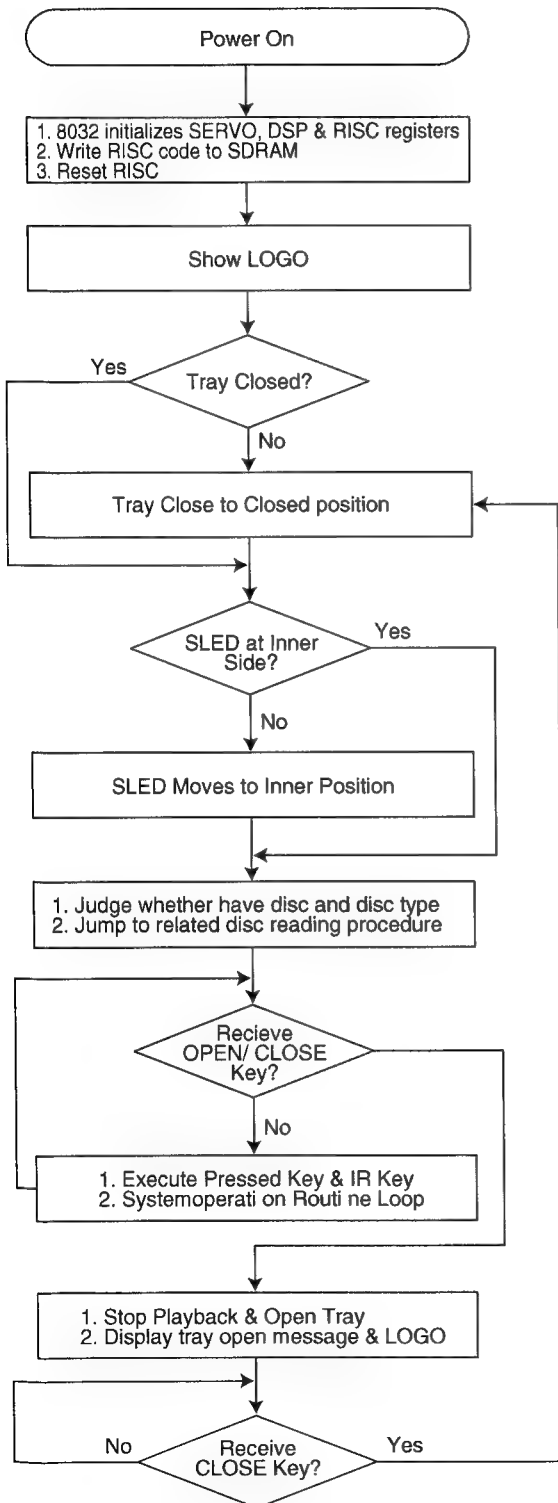
3. TIMER P.C.BOARD



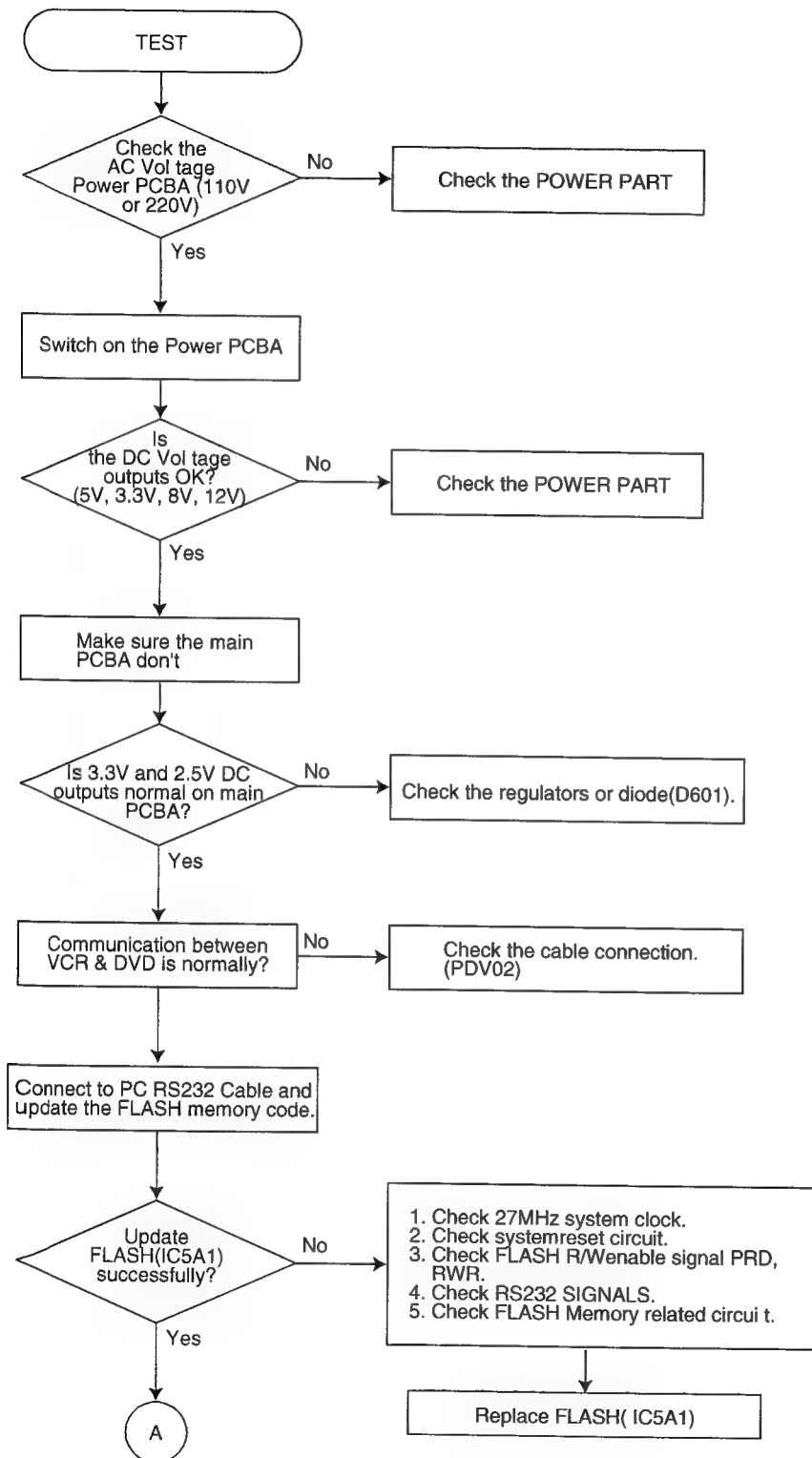
DVD PART

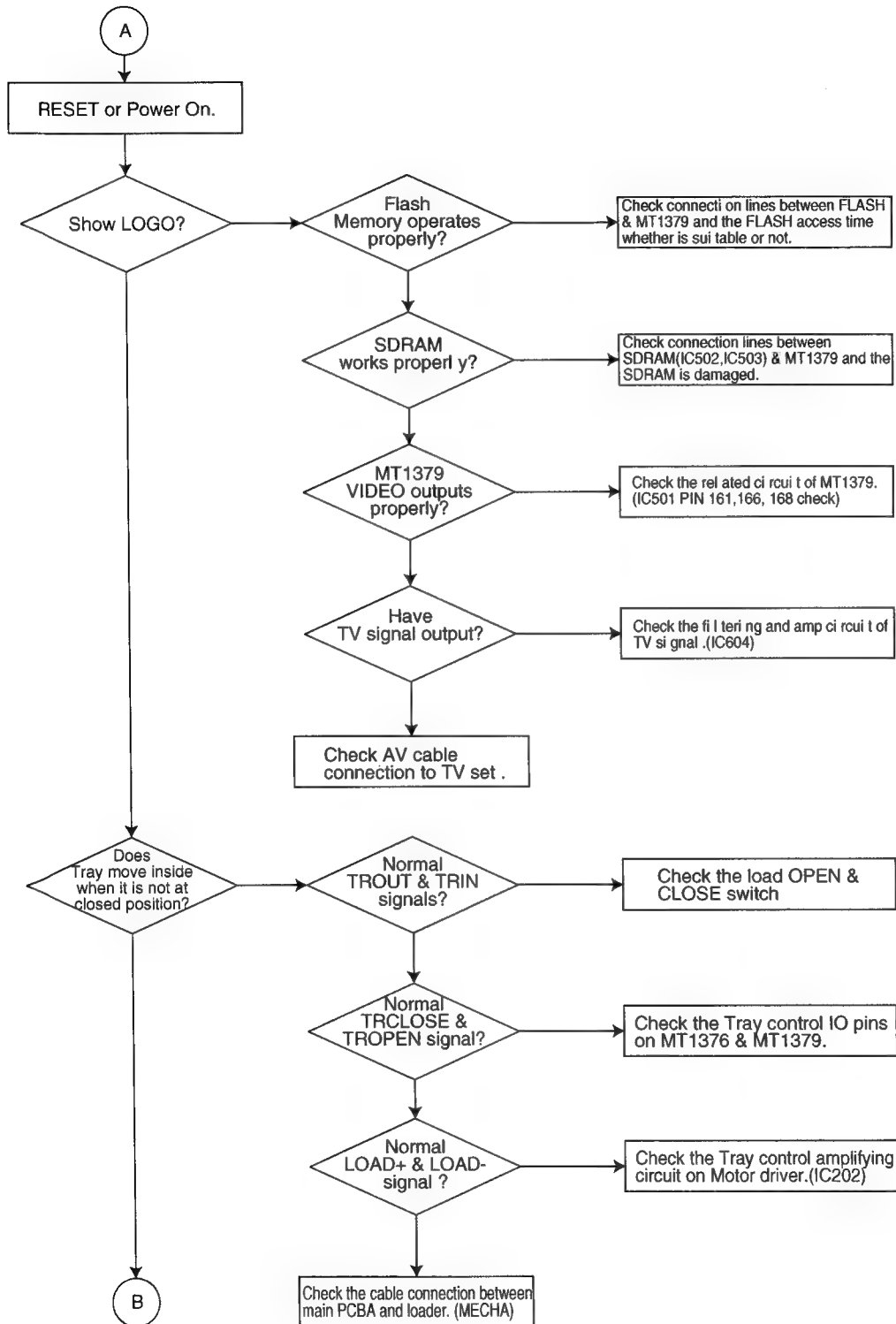
ELECTRICAL TROUBLESHOOTING GUIDE

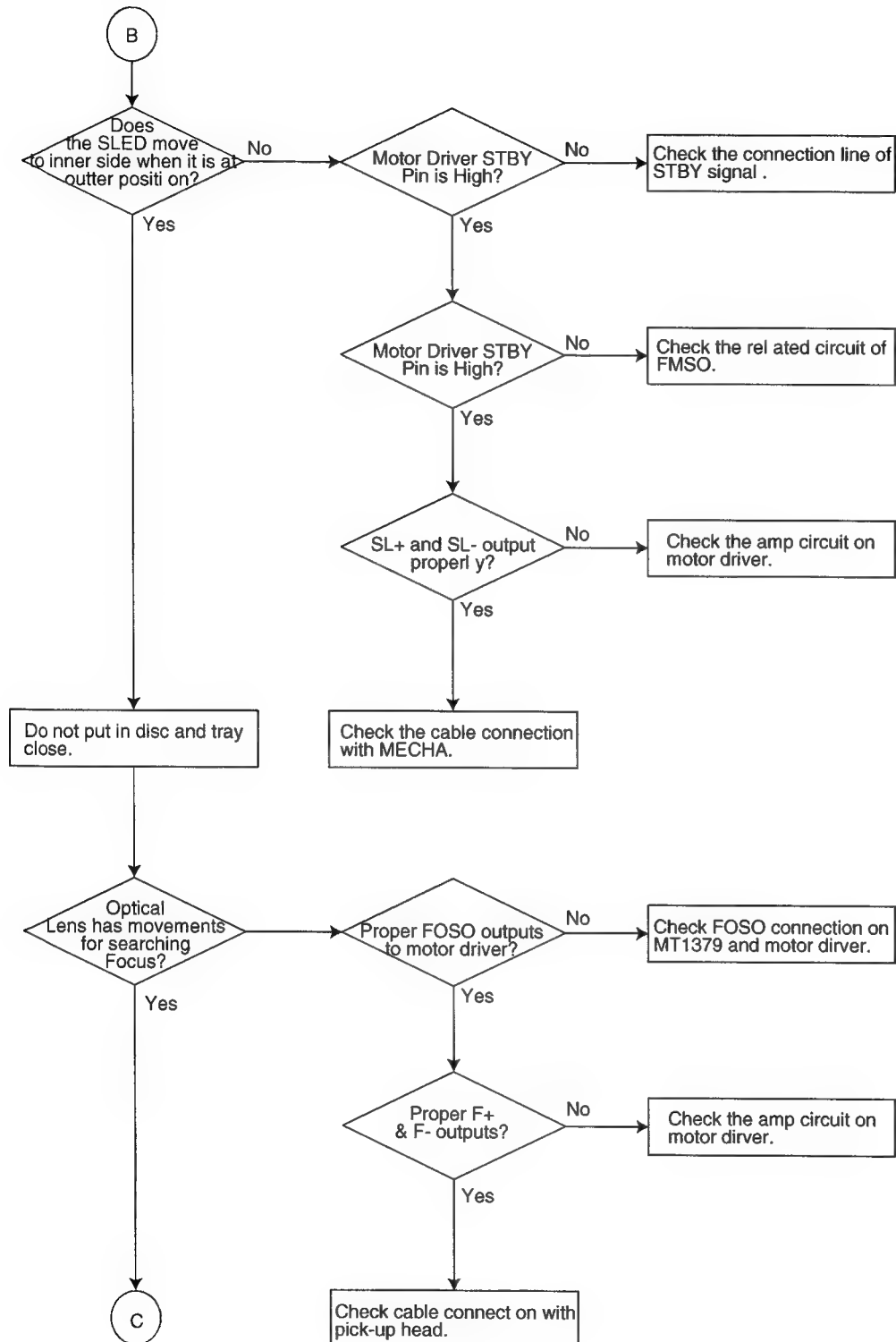
1. System operation flow

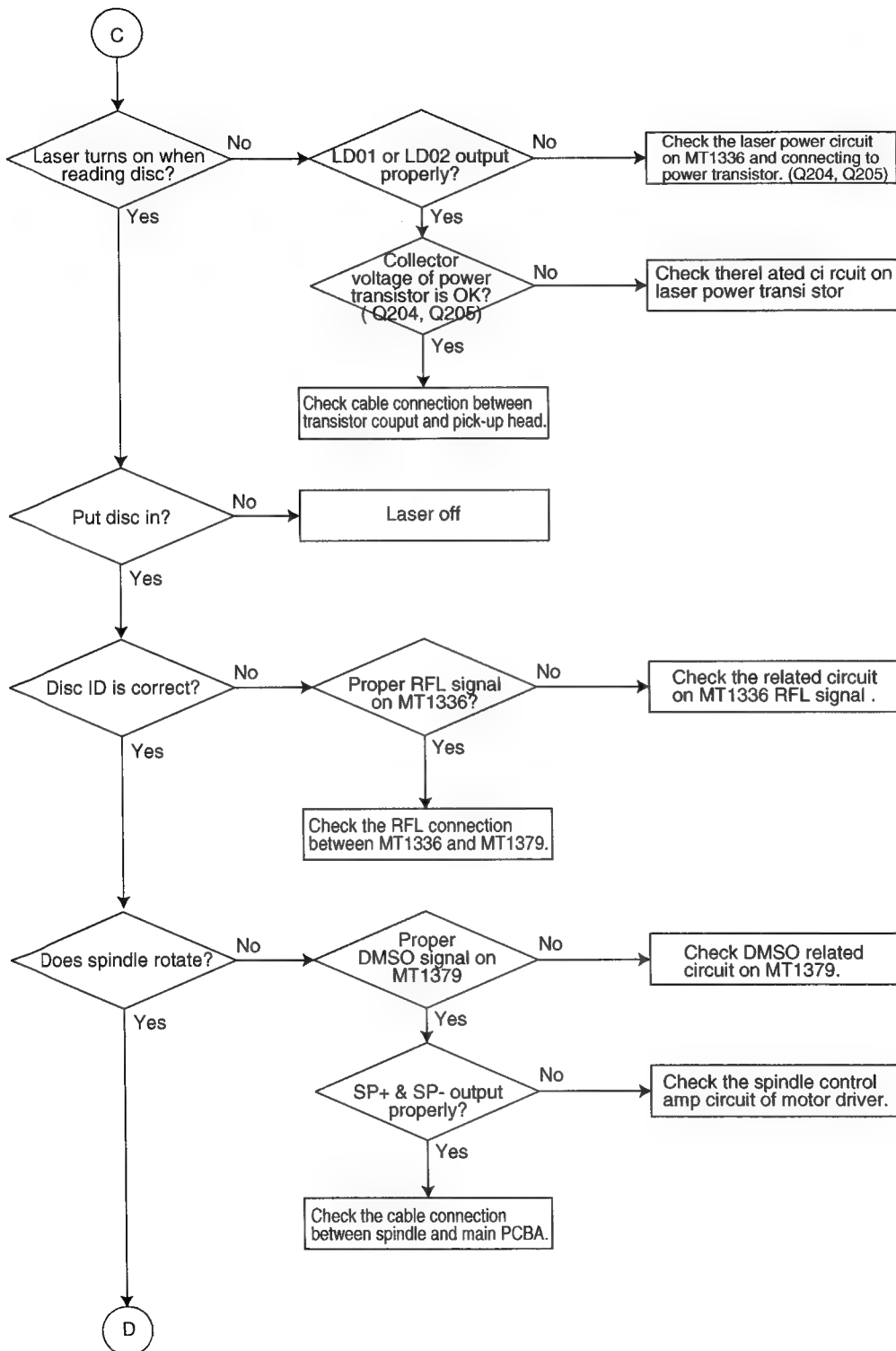


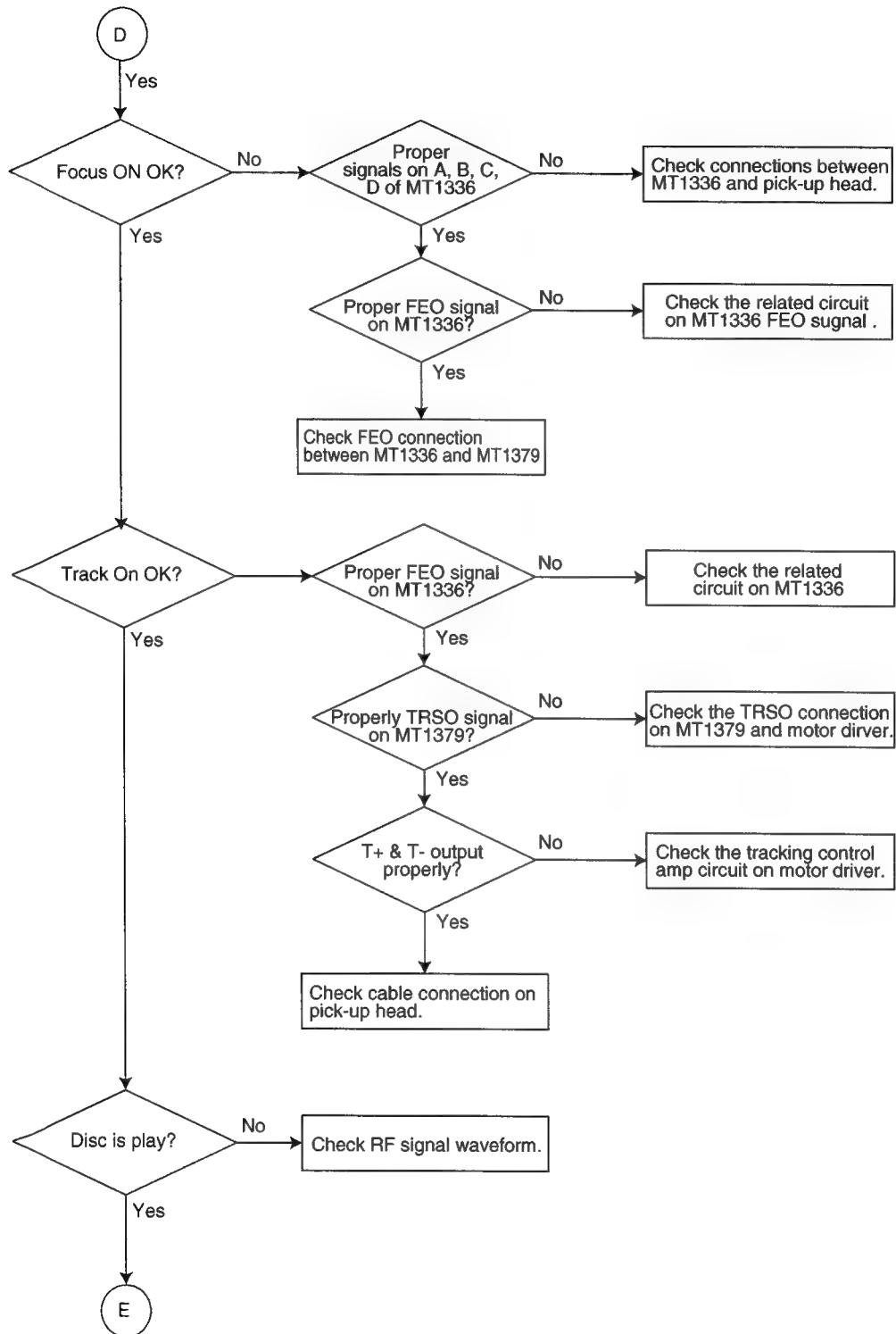
2. Test & debug flow

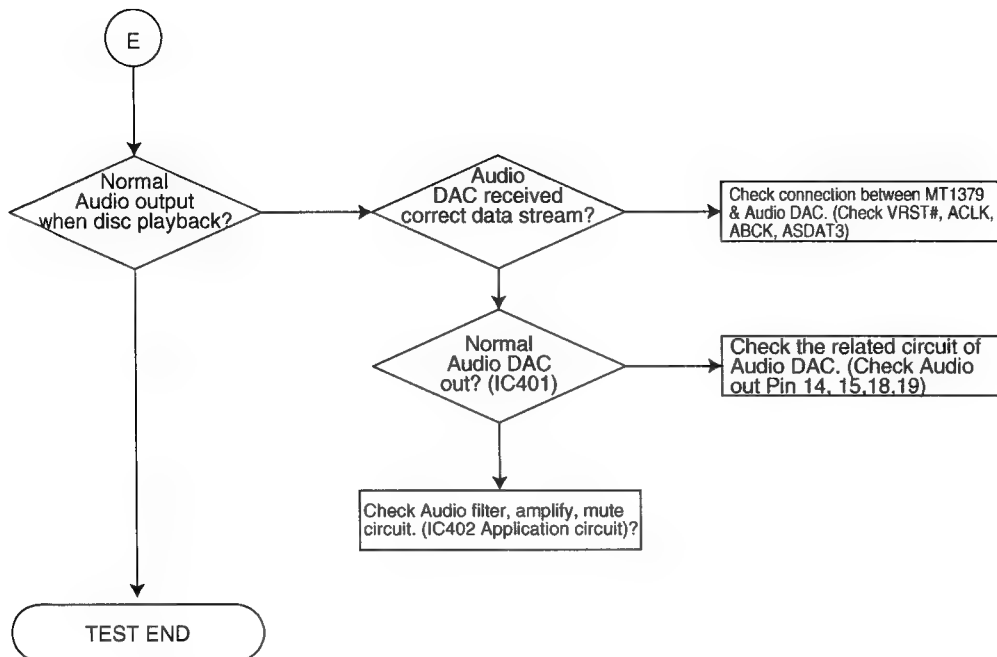












DETAILS AND WAVEFORMS ON SYSTEM TEST AND DEBUGGING

1. SYSTEM 27MHz CLOCK,RESET,FLASH R/W SIGNAL

1) MT1379 main clock is at 27MHz(X501)

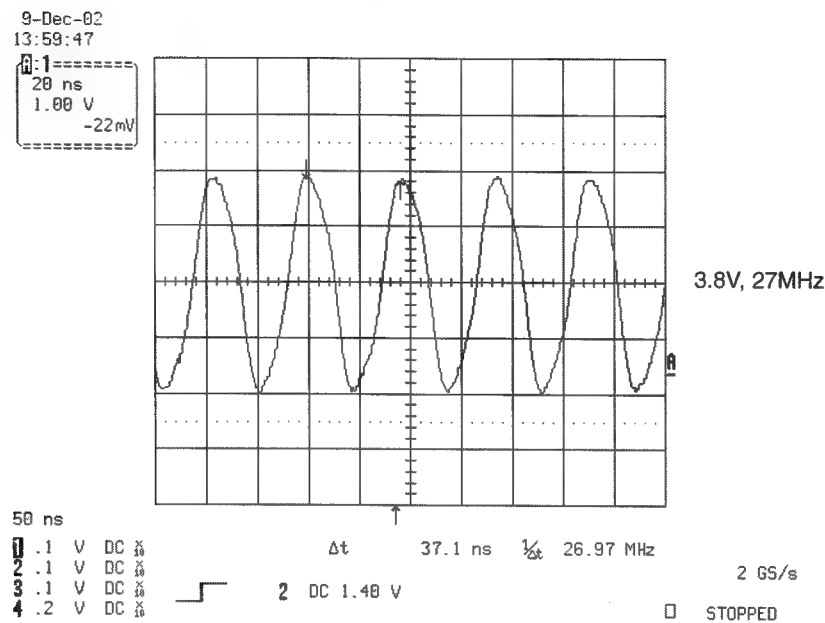


FIG 1-1

2) MT1379 & MT1336 reset is high active.

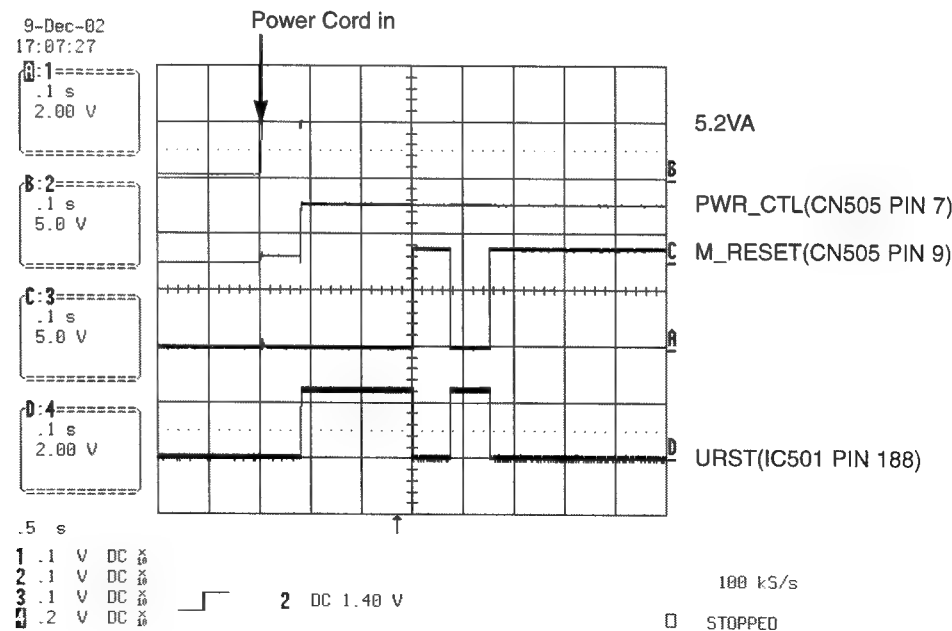


FIG 1-2

3) RS232 waveform during procedure(Downloading)

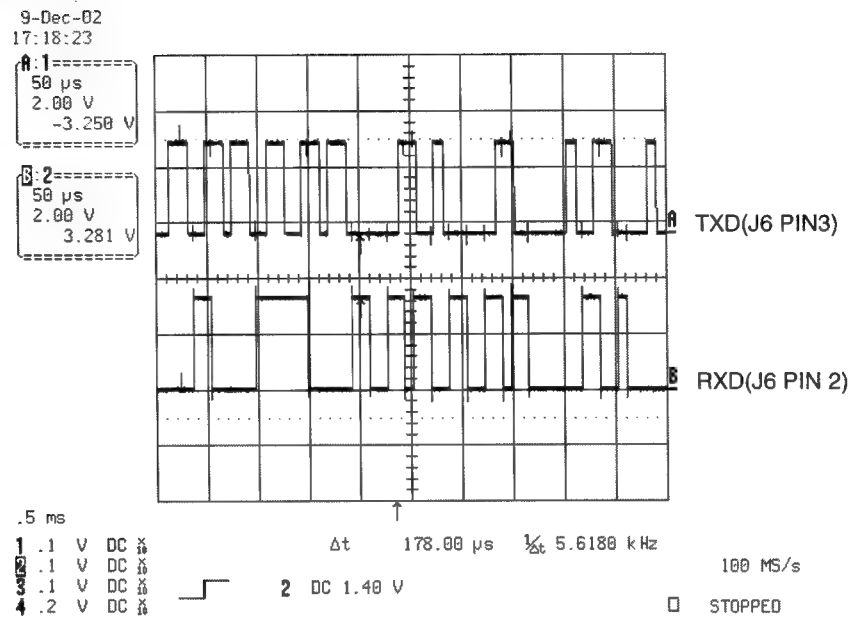


FIG 1-3

4) Flash R/W enable signal during download(Downloading)

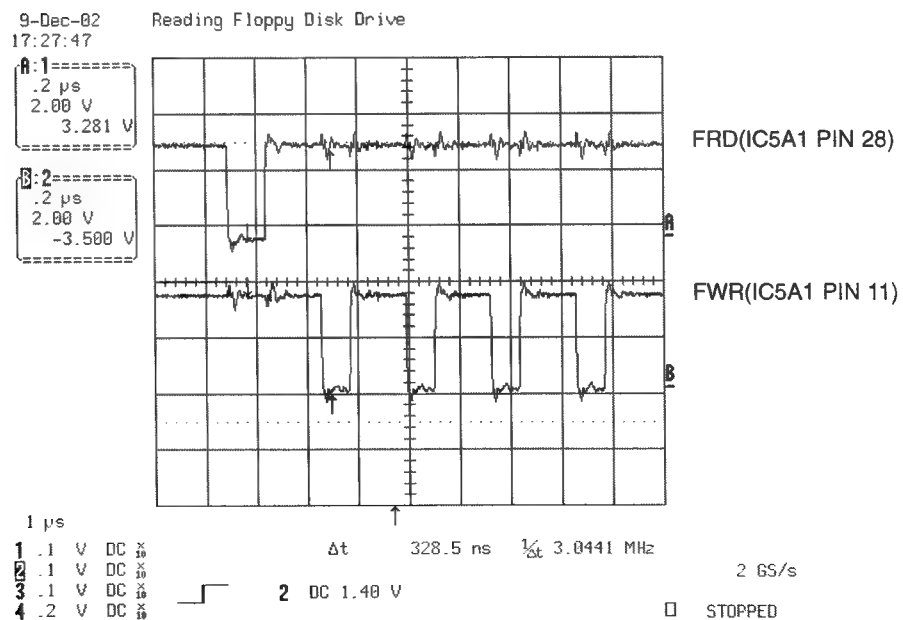


FIG 1-4

2. SDRAM CLOCK

1) MT1379 main clock is at 27MHz(X501)

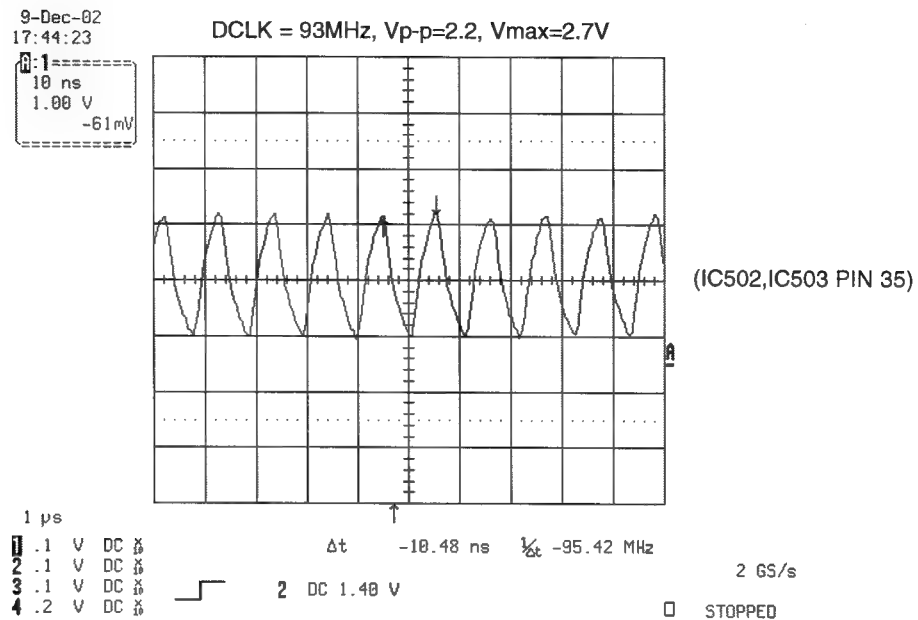


FIG 2-1

3. TRAY OPEN/CLOSE SIGNAL

1) Tray open/close waveform

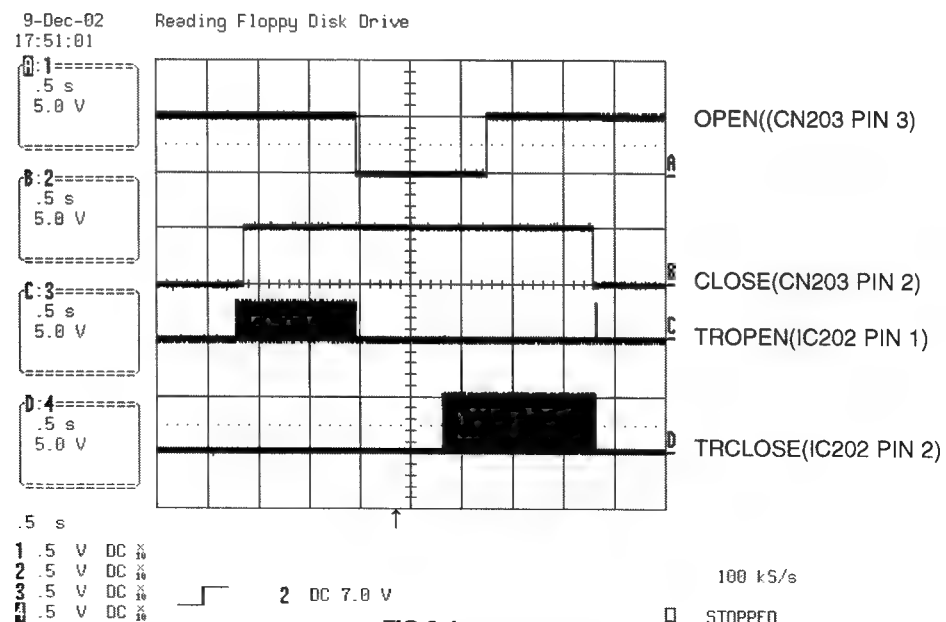


FIG 3-1

2) Tray close waveform

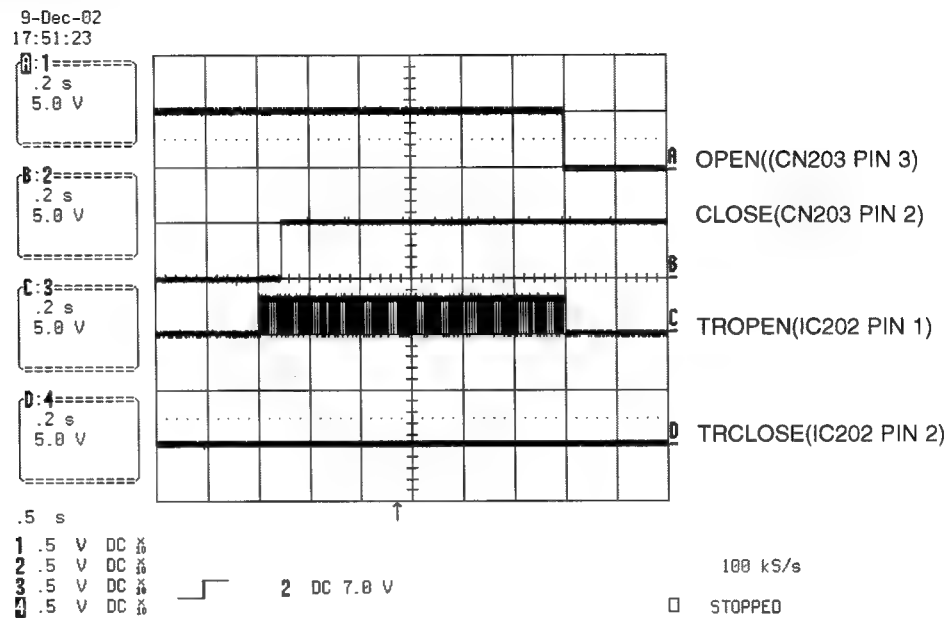


FIG 3-2

3) Tray open waveform

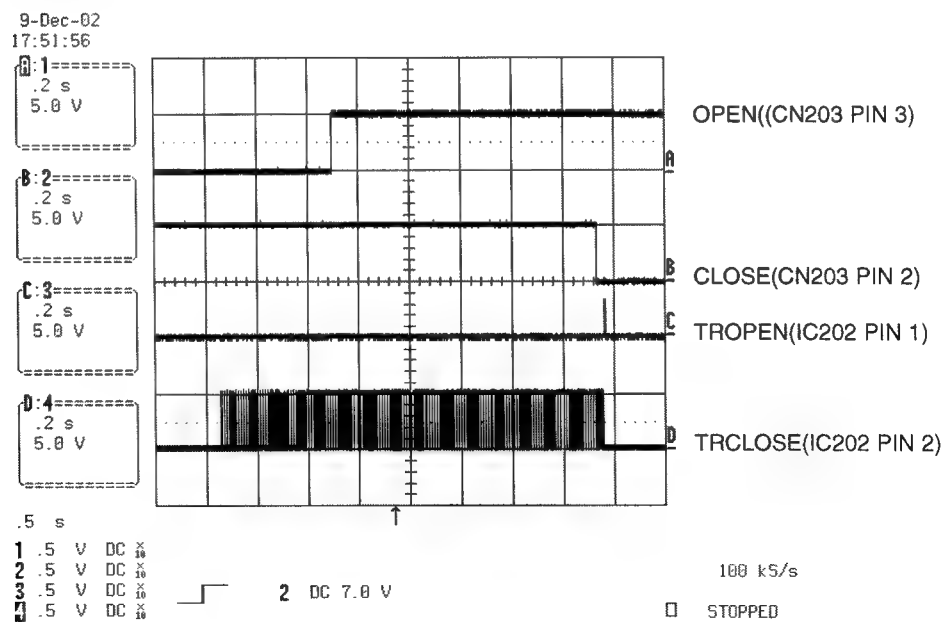


FIG 3-3

4. SLED CONTROL RELATED SIGNAL (NO DISC CONDITION)

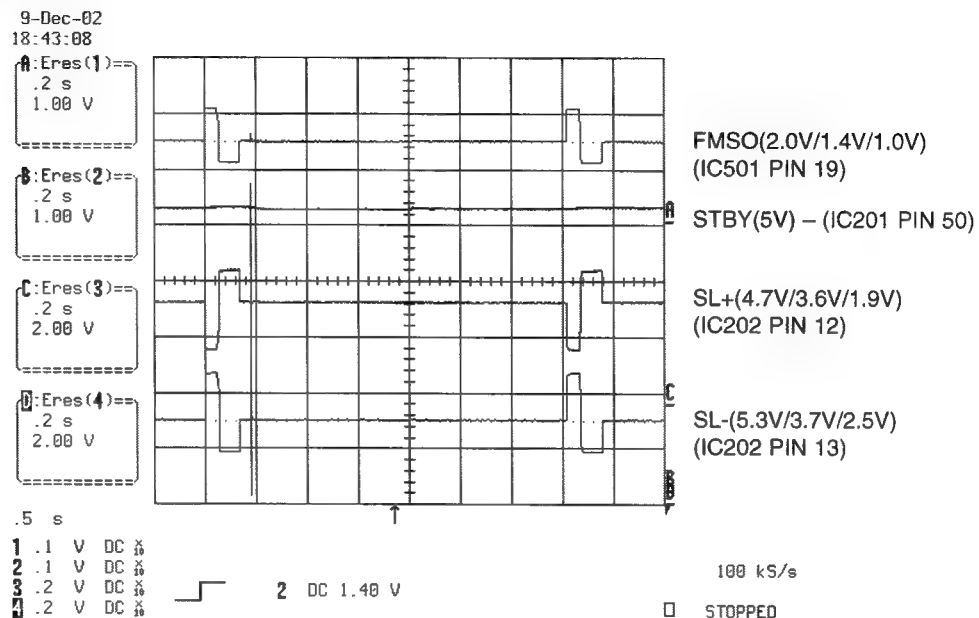


FIG 4-1

5. LENS CONTROL RELATED SIGNAL(NO DISC CONDITION)

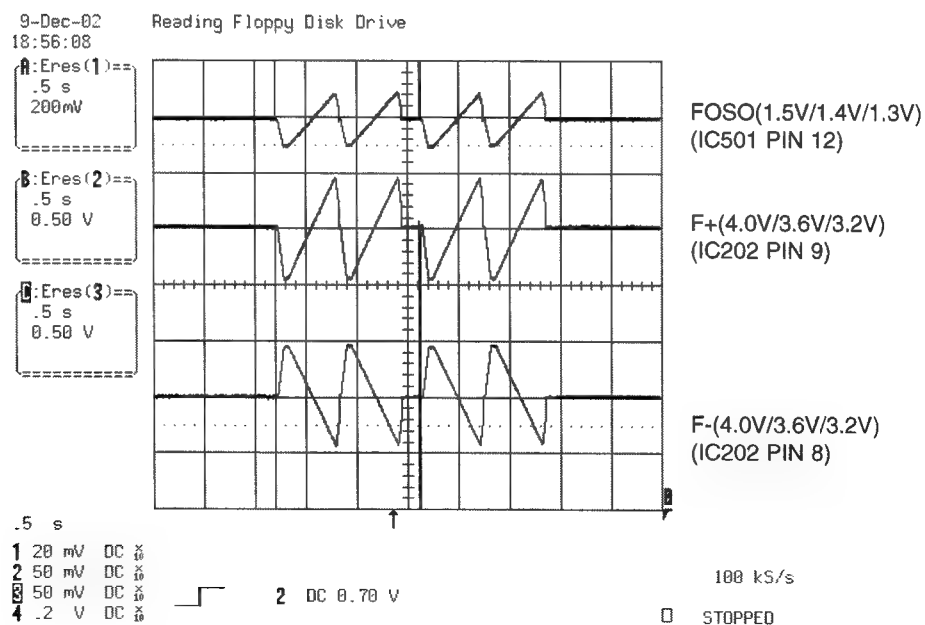


FIG 5-1

6. LASER POWER CONTROL RELATED SIGNAL(NO DISC CONDITION)

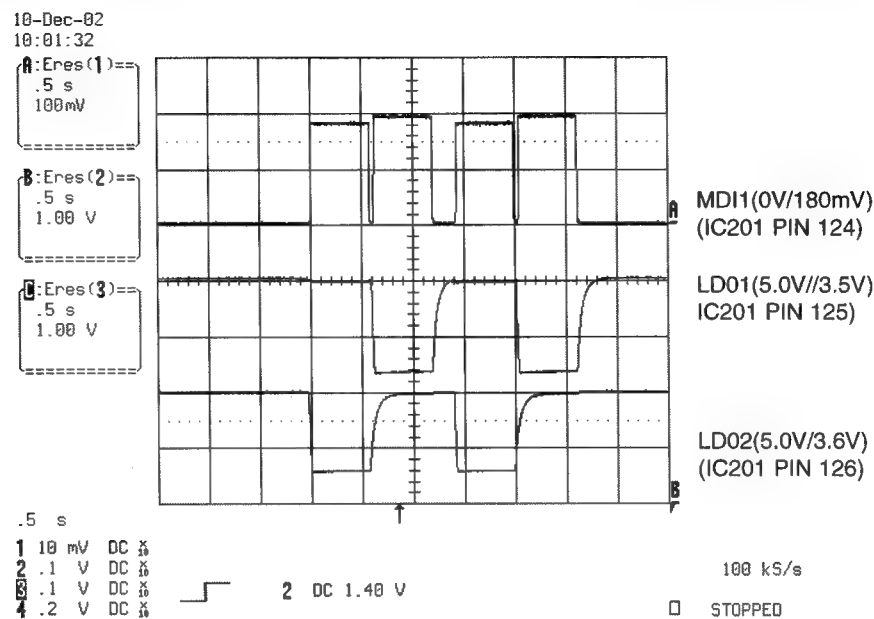


FIG 6-1

7. DISC TYPE JUDGEMENT WAVEFORM

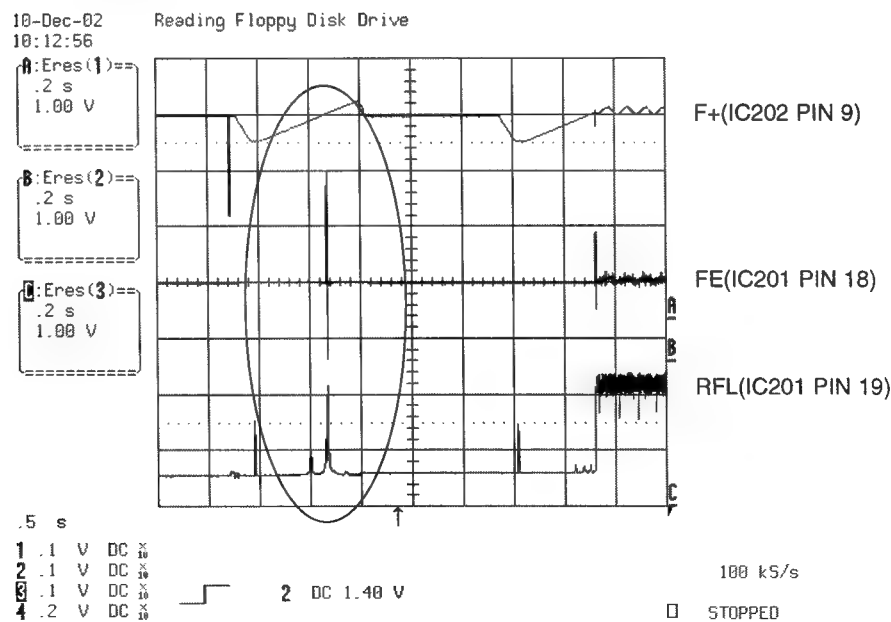


FIG 7-1 (DVD)

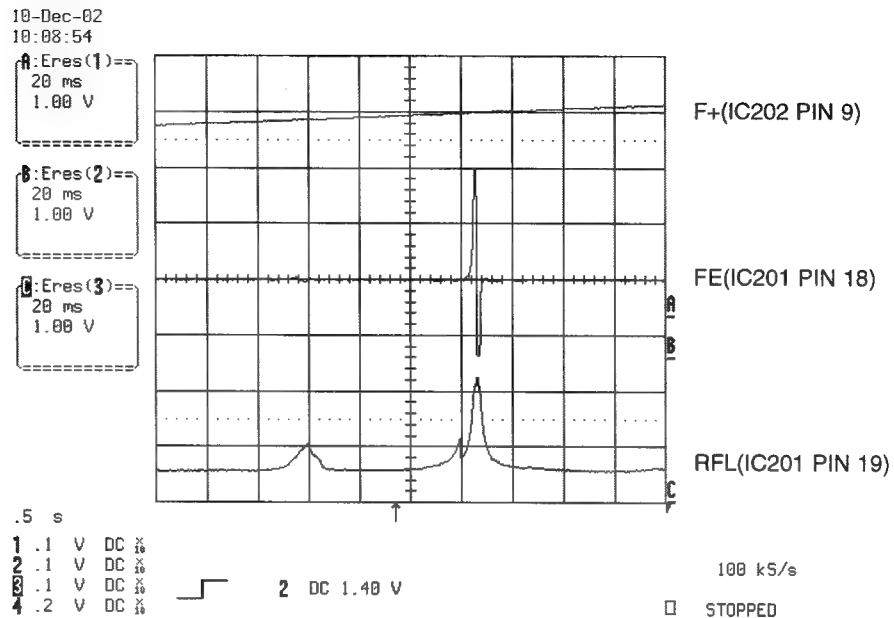


FIG 7-2 (DVD)

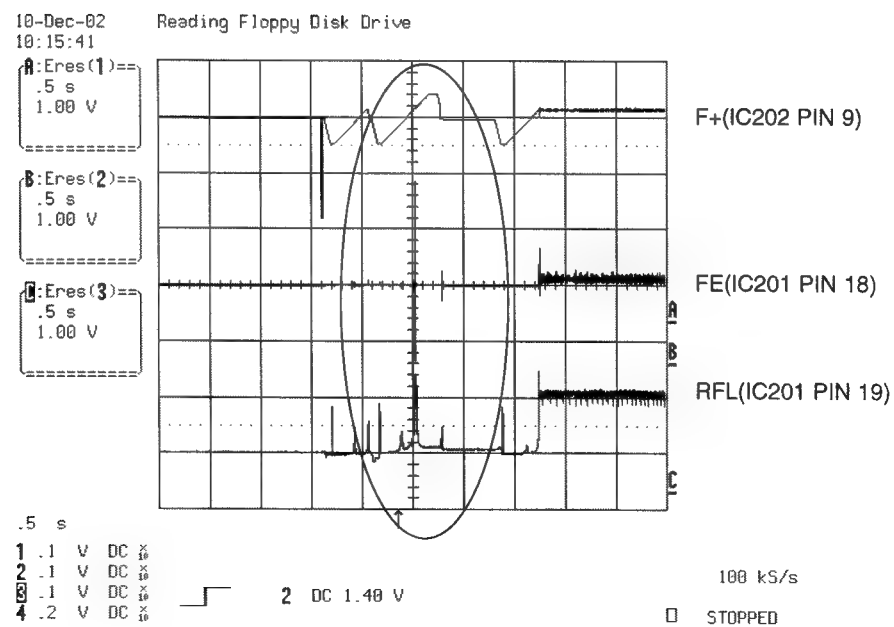


FIG 7-3 (CD)

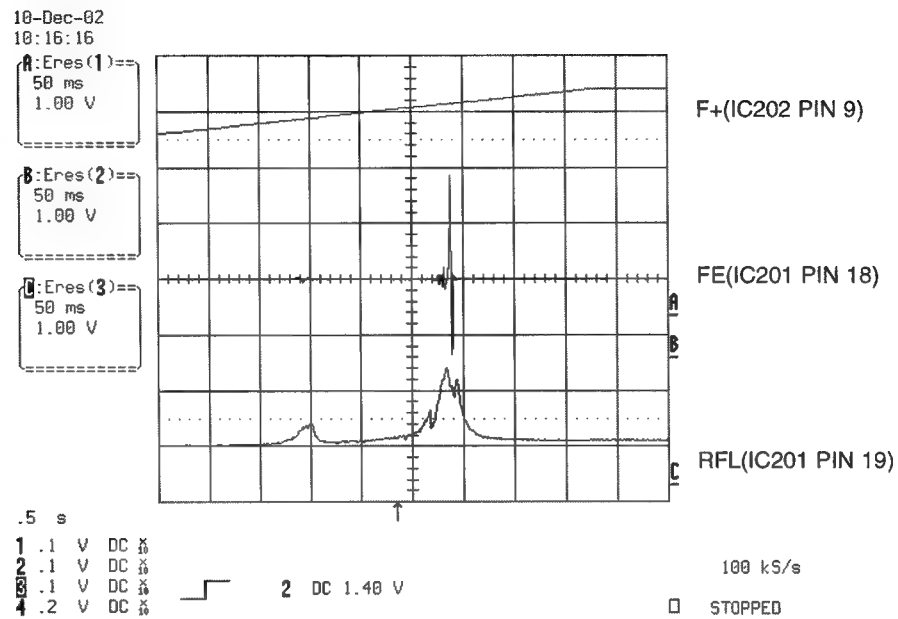


FIG 7-4 (CD)

8. FOCUS ON WAVEFORM

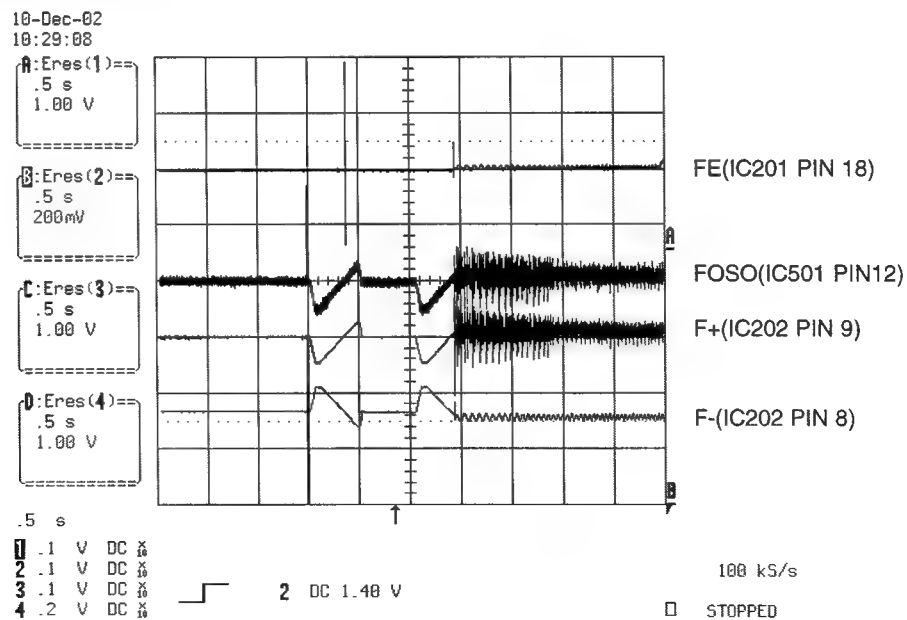


FIG 8-1 (DVD)

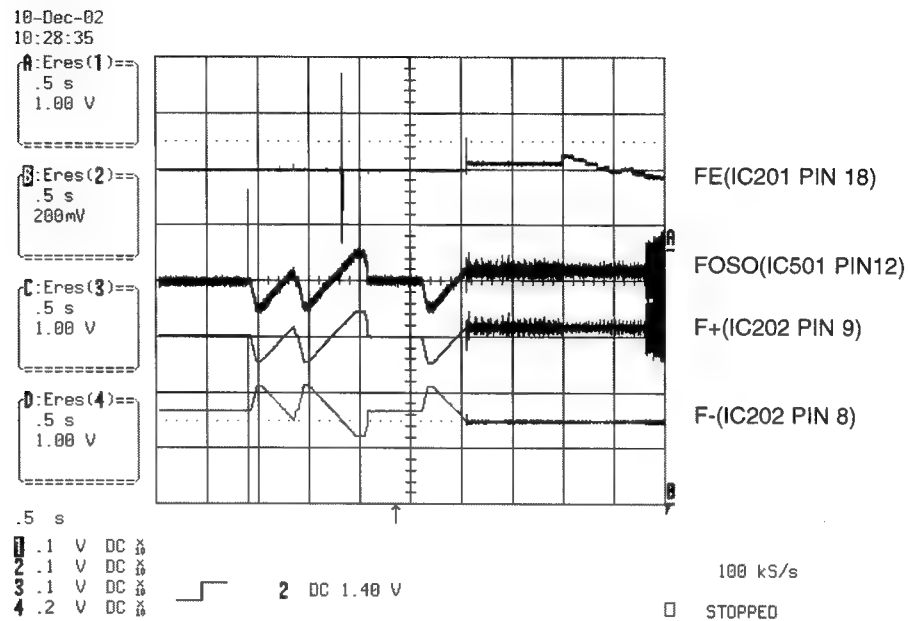


FIG 8-2 (CD)

9. SPINDLE CONTROL WAVEFORM (NO DISC CONDITION)

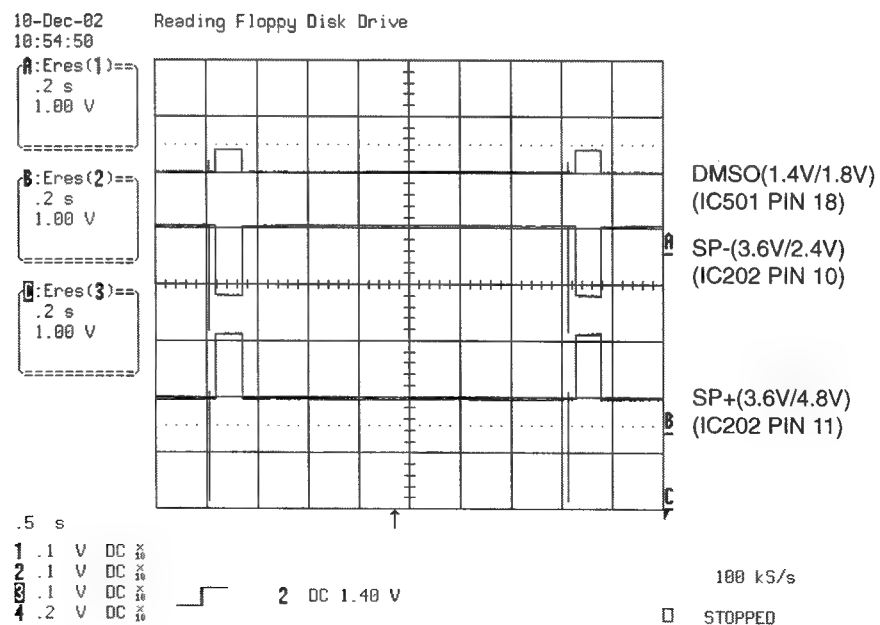


FIG 9-1

10. TRACKING CONTROL RELATED SIGNAL(System checking)

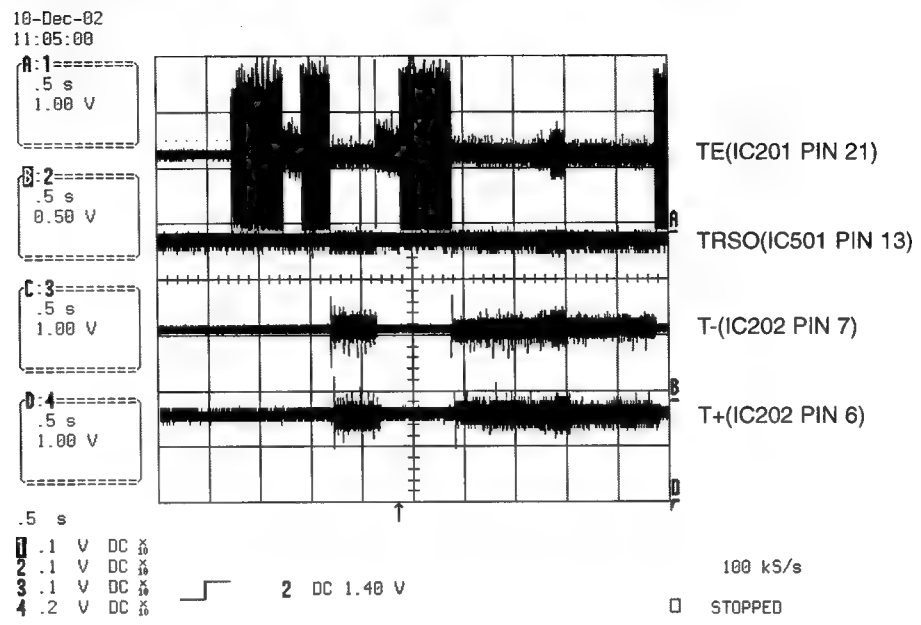


FIG 10-1(DVD)

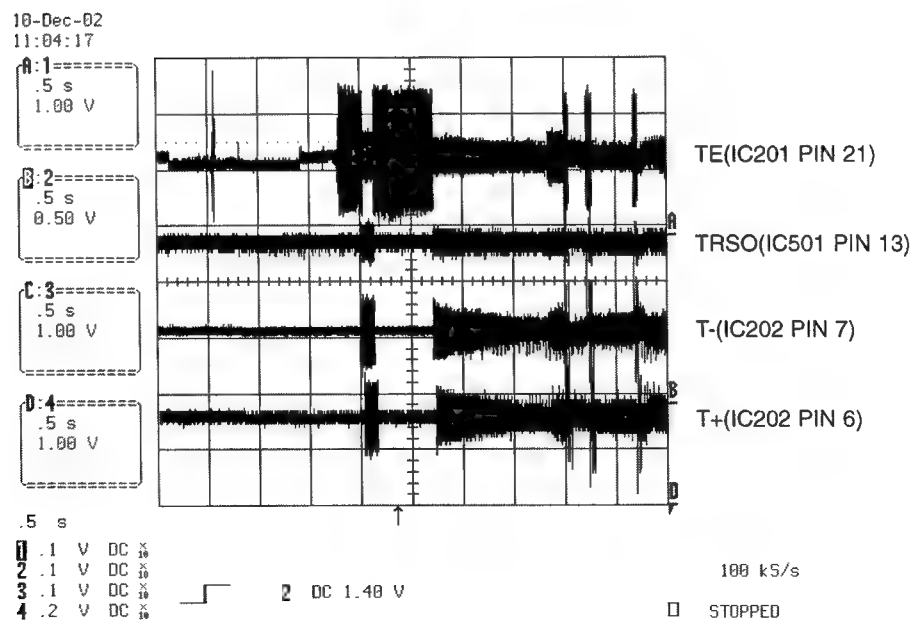


FIG 10-2(CD)

11. RF WAVEFORM

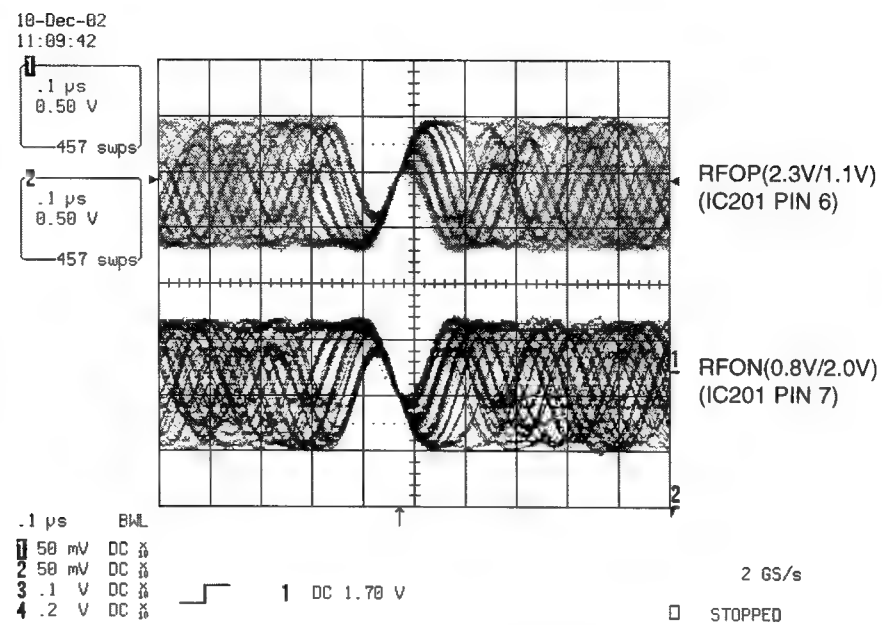


FIG 11-1

12. MT1379 AUDIO OPTICAL AND COAXIAL OUTPUT (ASPDIF)

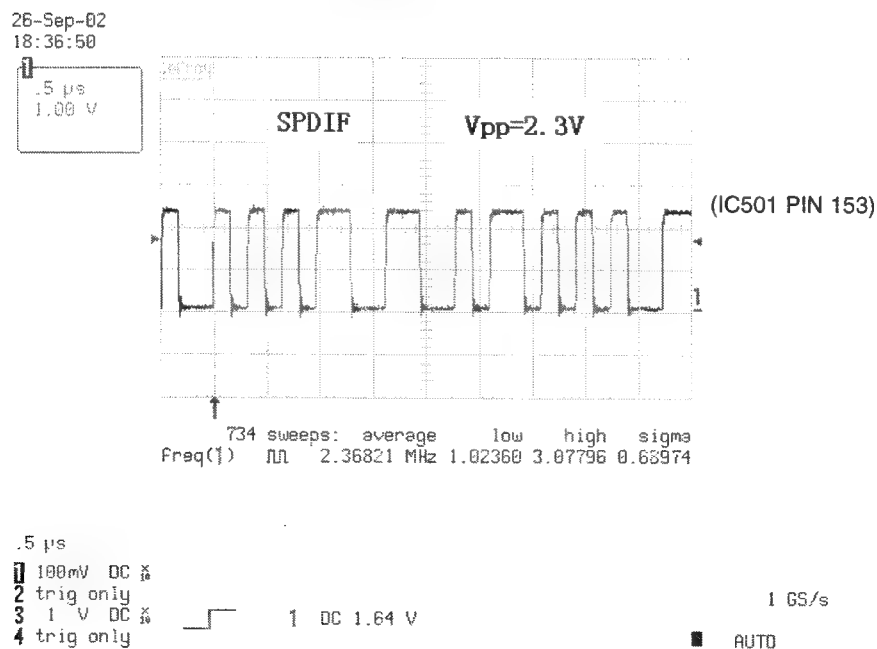


FIG 12-1

13. MT1379 VIDEO OUTPUT WAVEFORM

1) Full colorbar signal(CVBS)

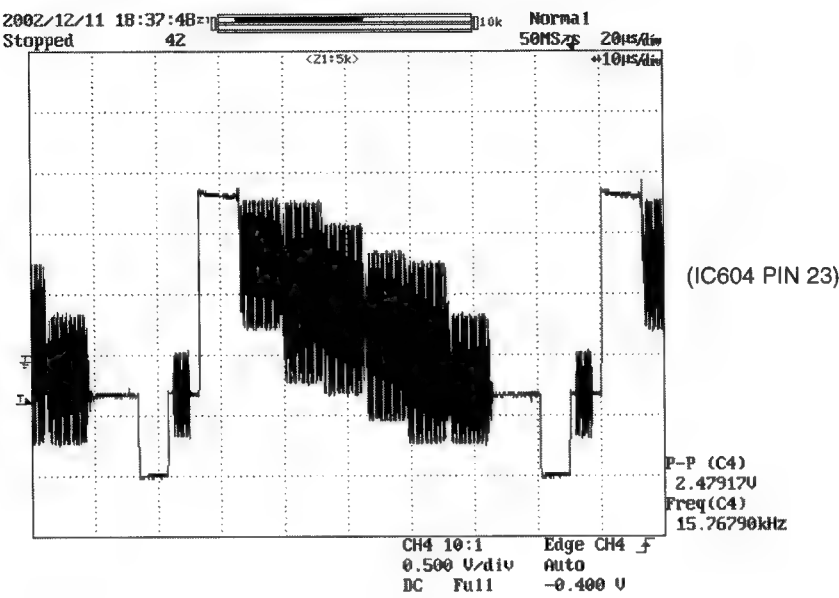


FIG 13-1

2) Y

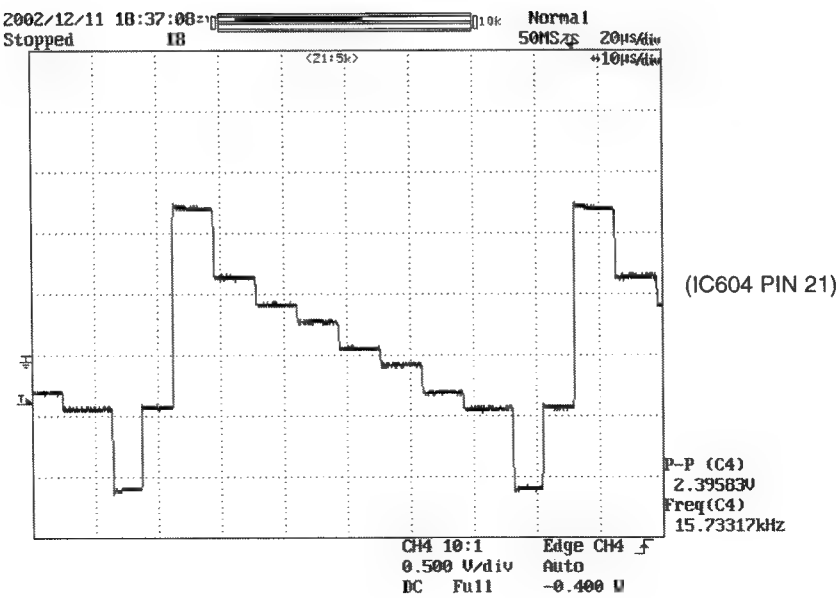


FIG 13-2

3) C

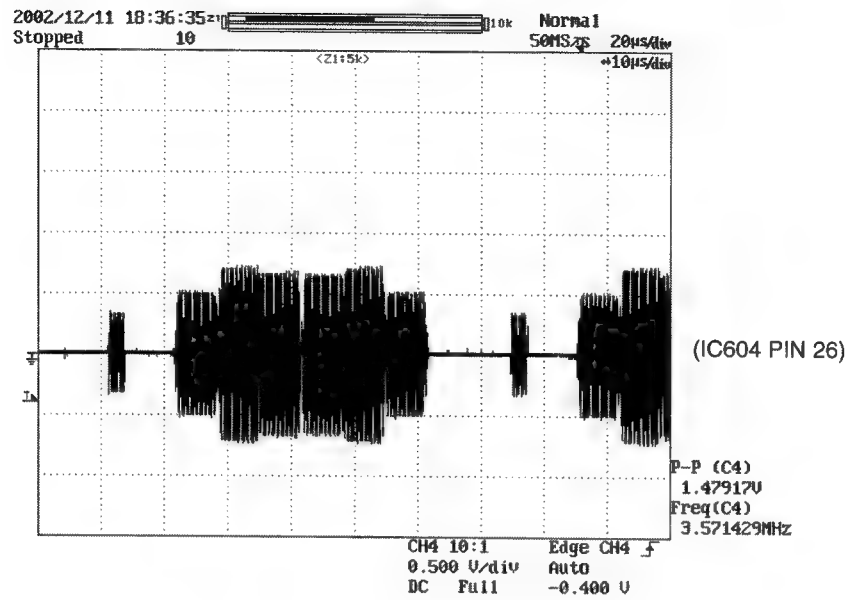


FIG 13-3

14. AUDIO OUTPUT FROM AUDIO DAC

1) Audio L/R

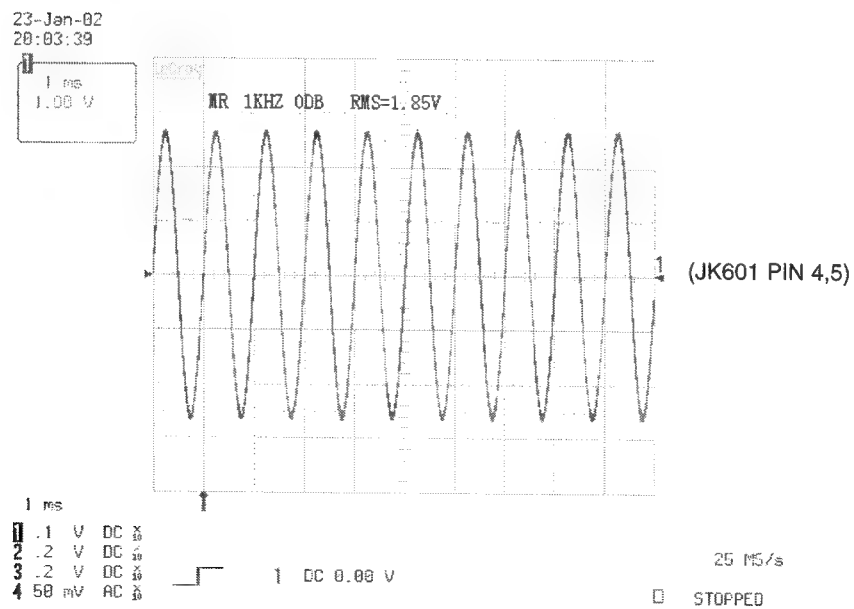


FIG 14-1

2) Audio related Signal

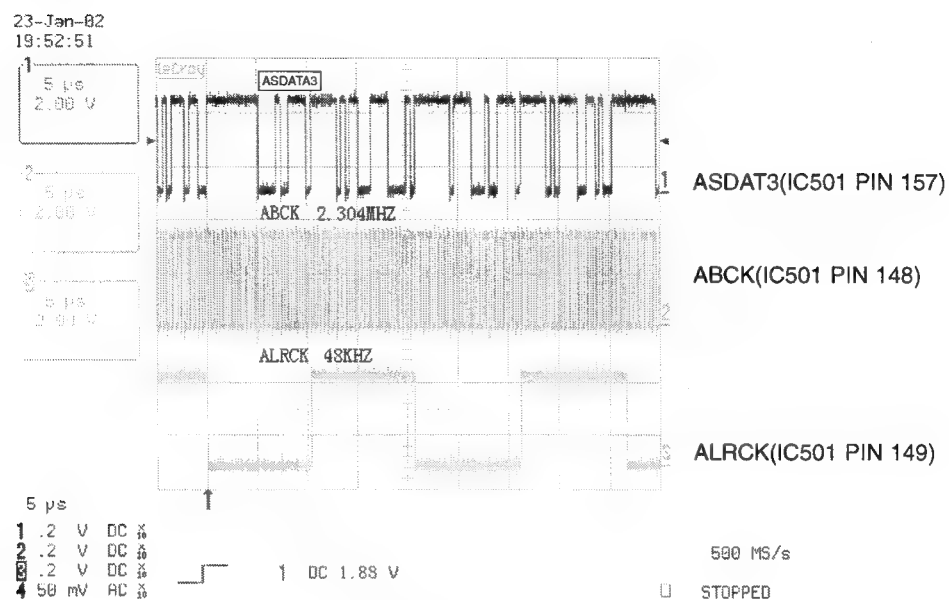
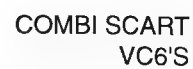
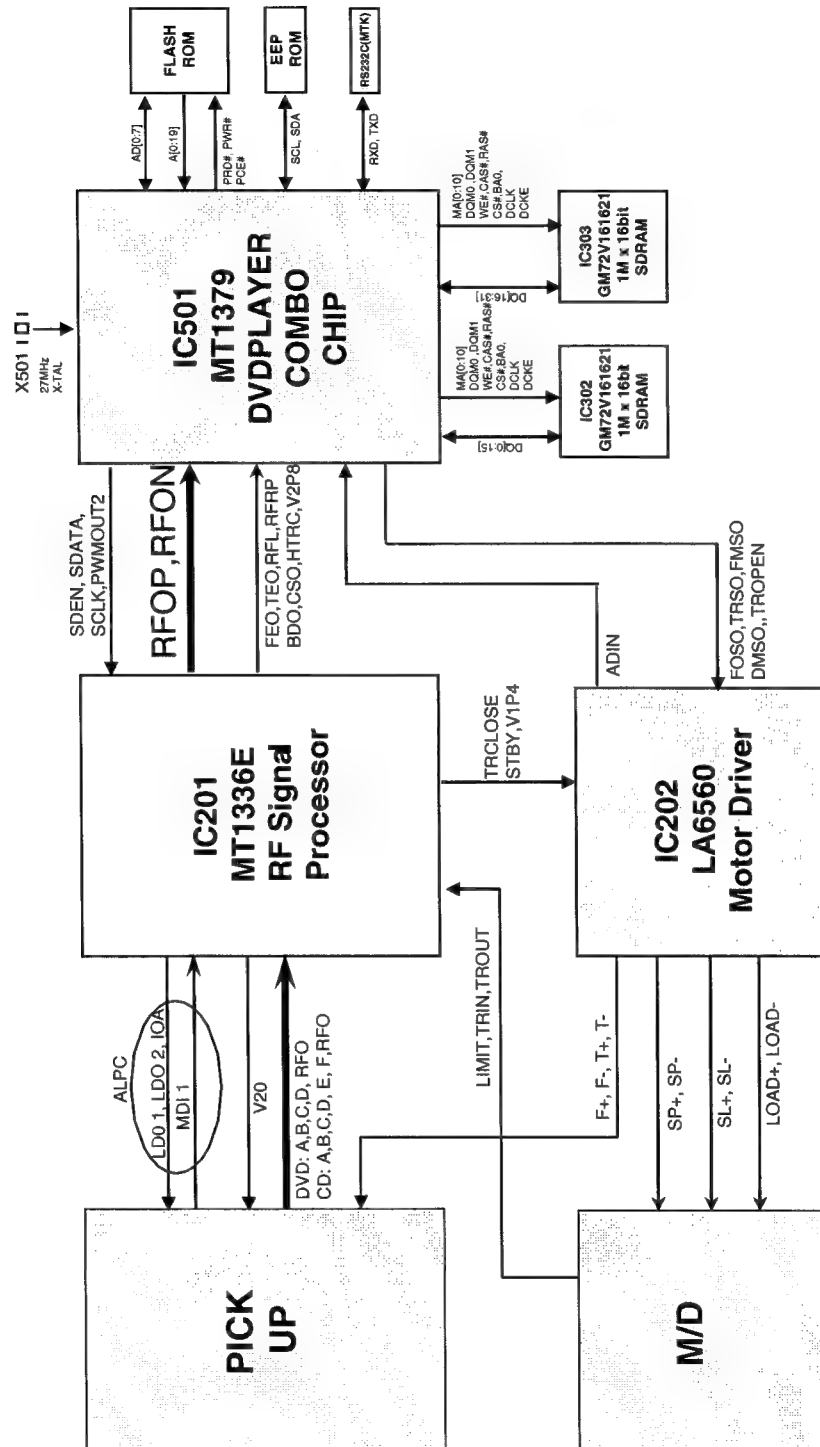


FIG 14-2

1. Overall Block Diagram

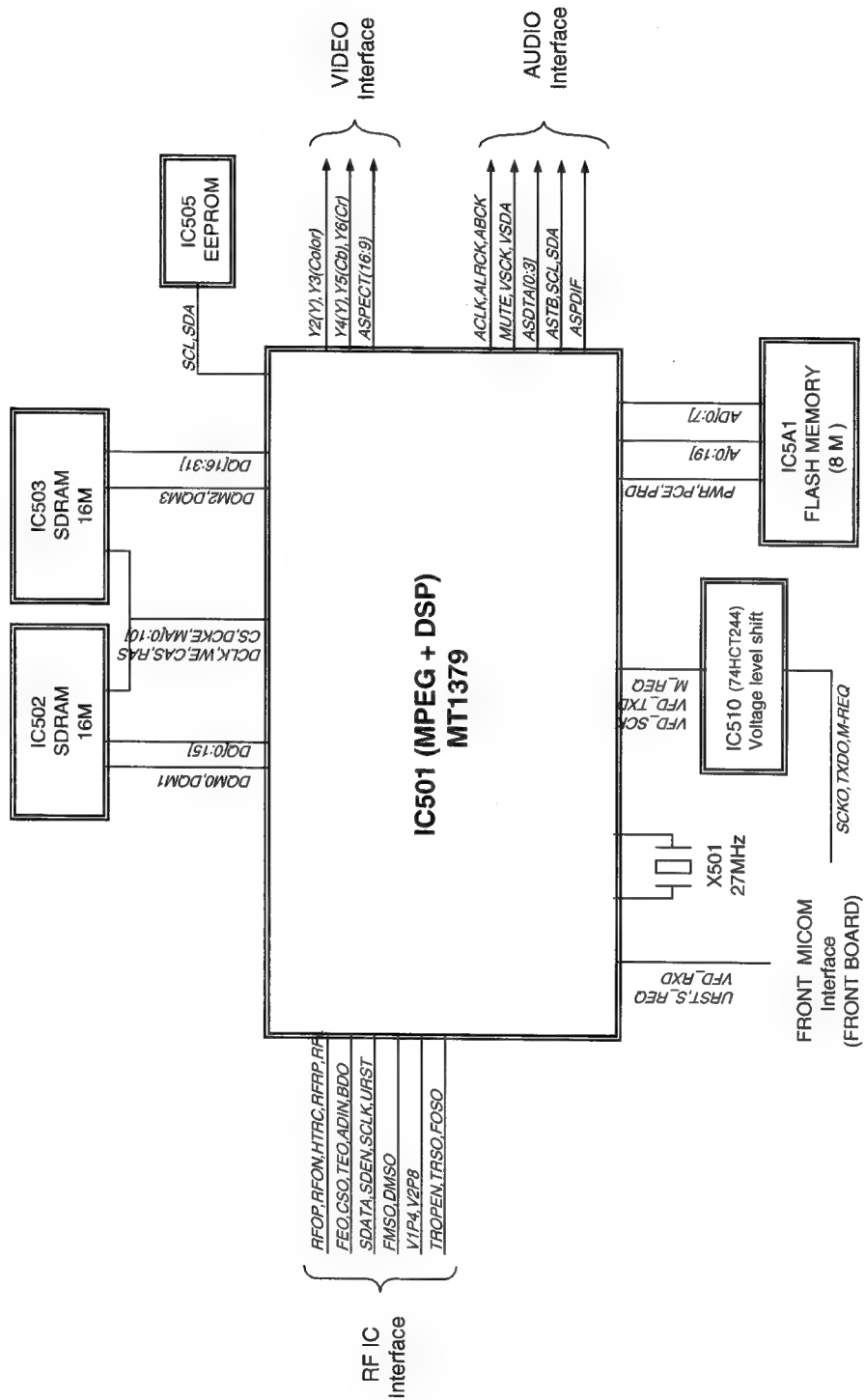


2. SERVO Block Diagram



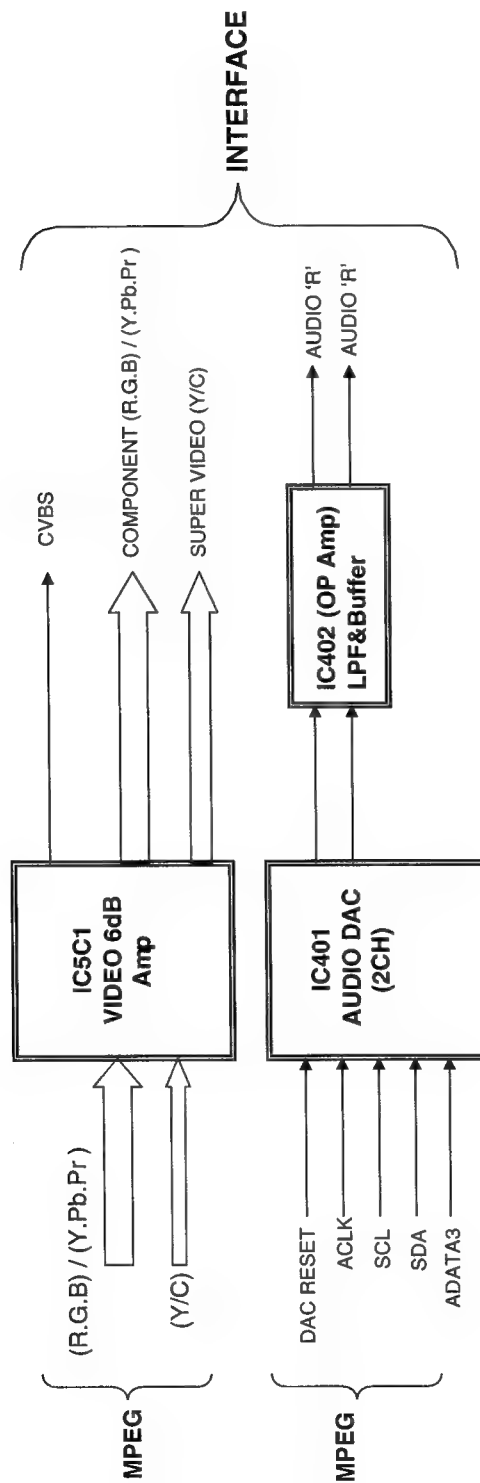
COMBI SCART
VC6'S

3. MPEG & MEMORY Block Diagram



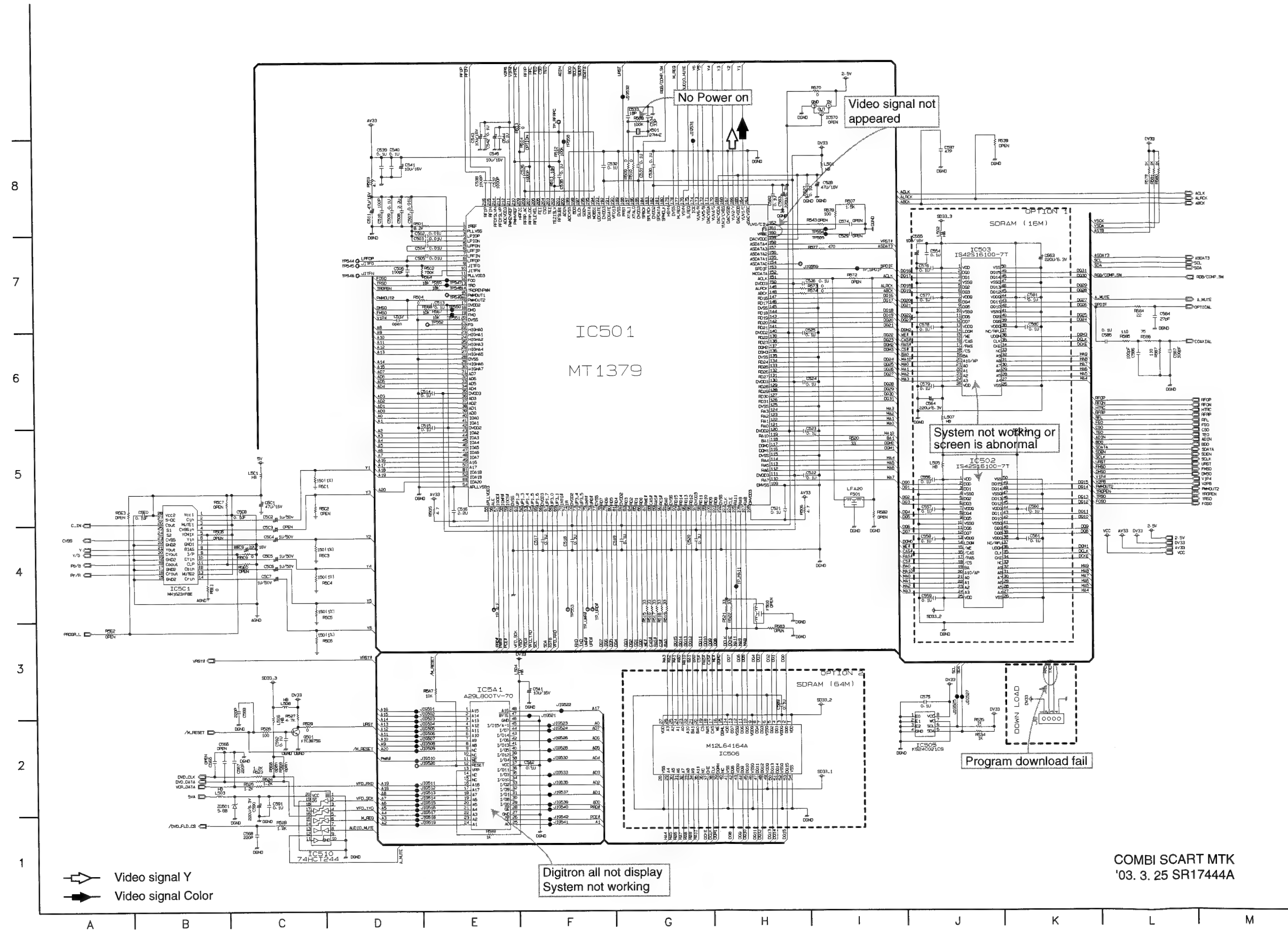
COMBI SCART
VC6'S

4. VIDEO & AUDIO Block Diagram

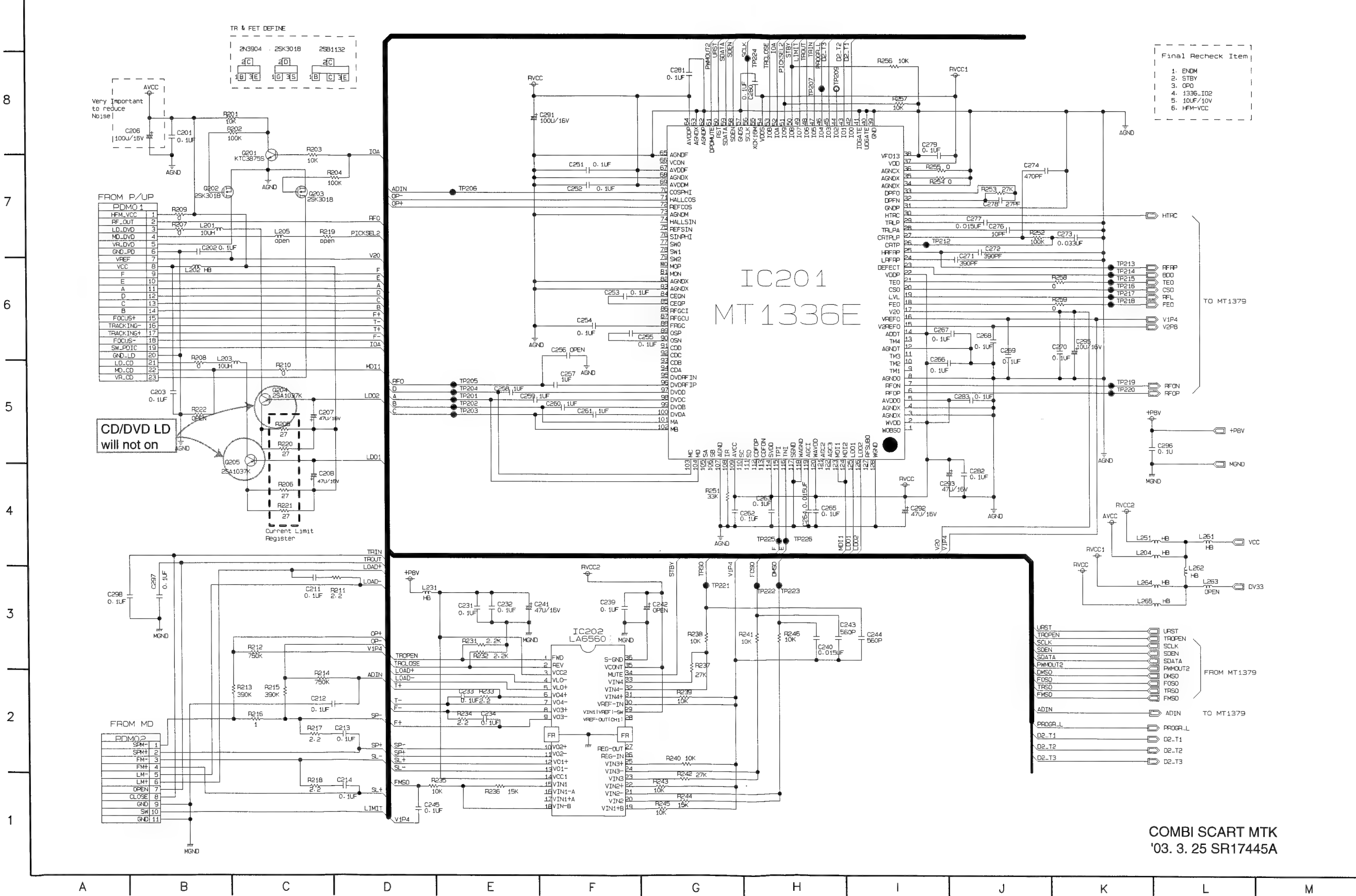


COMBI SCART
VC6'S

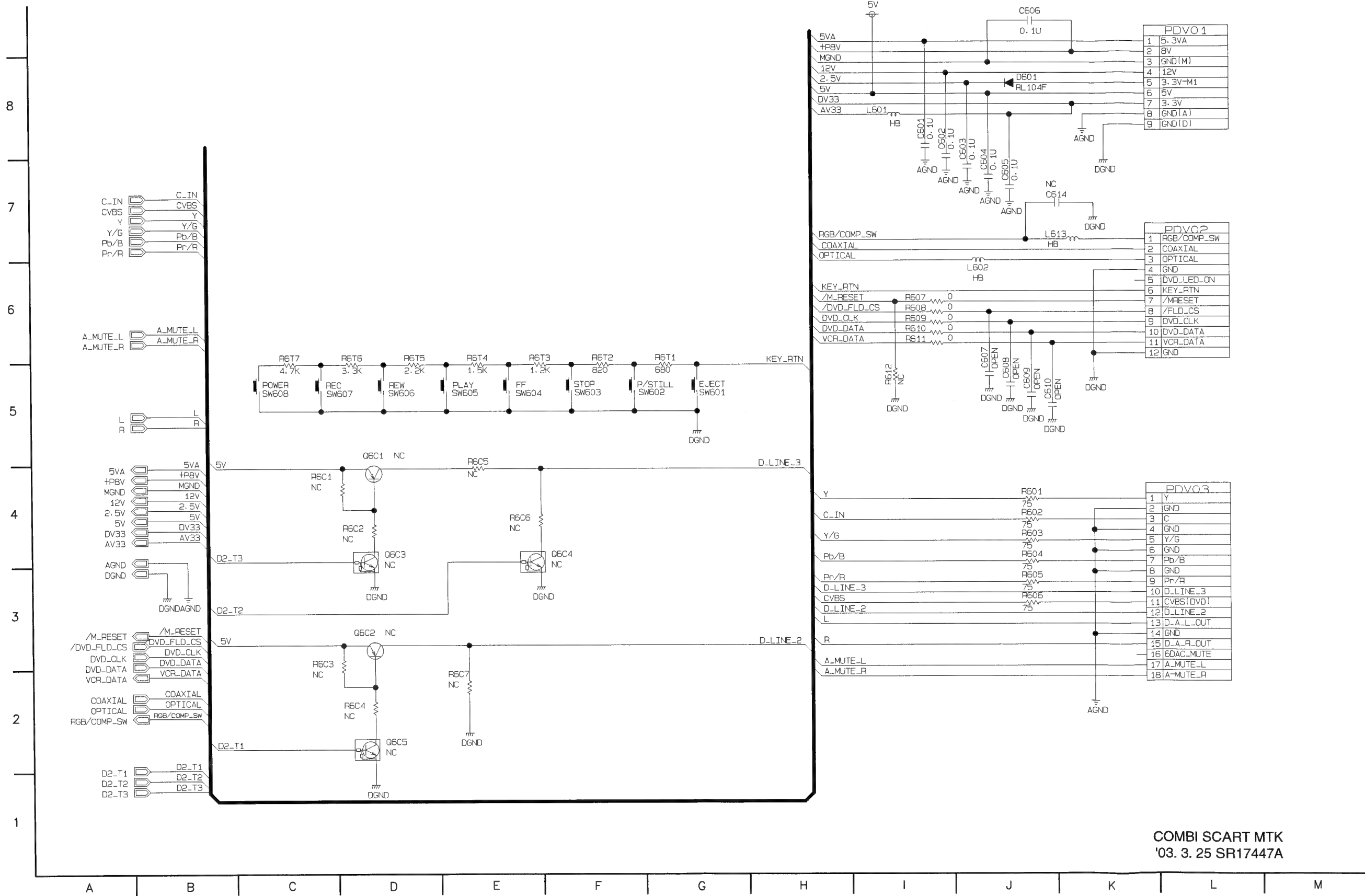
1. SYSTEM CIRCUIT DIAGRAM



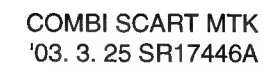
2. RF & DSP SERVO CIRCUIT DIAGRAM



3. AUDIO CIRCUIT DIAGRAM



1

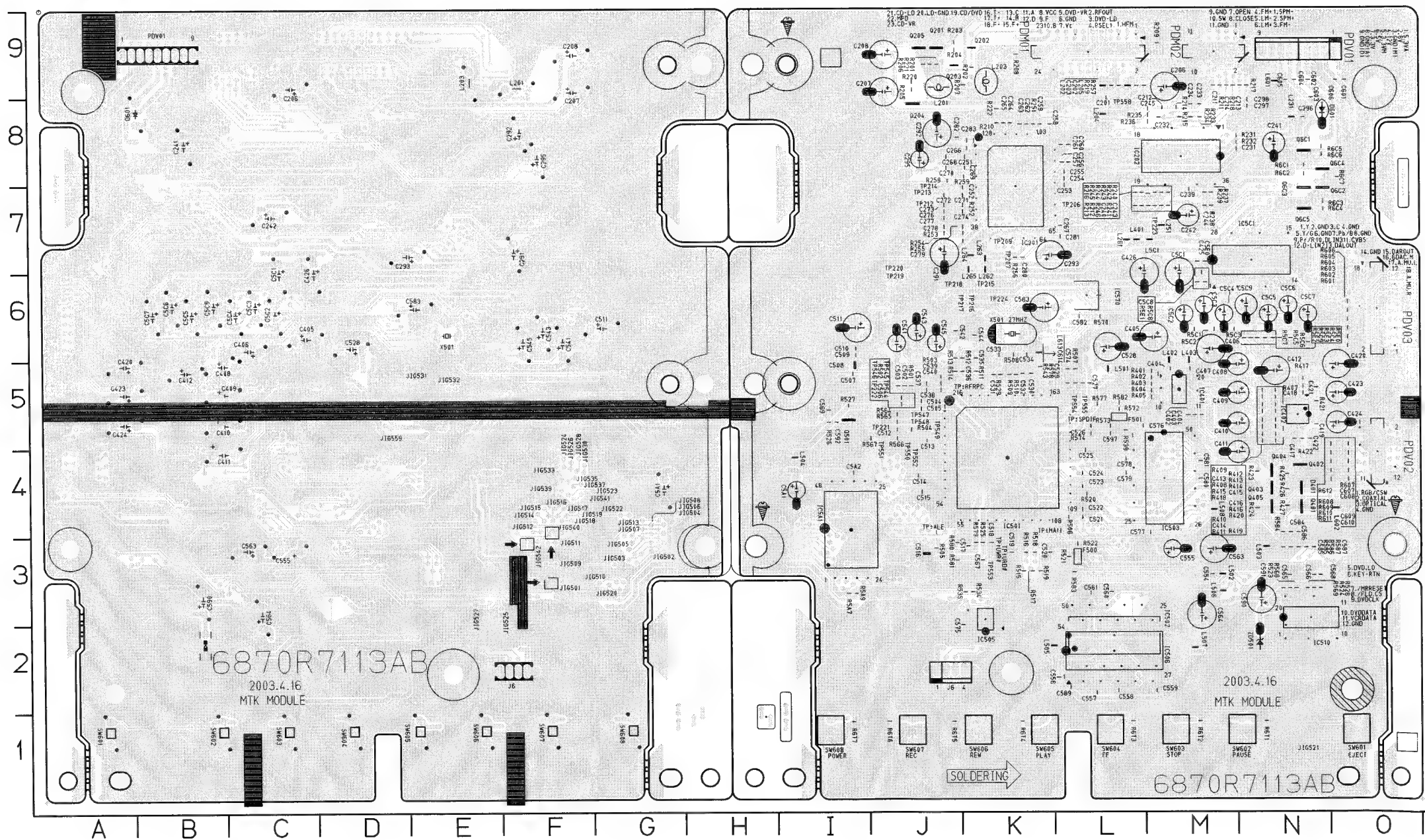


• CIRCUIT VOLTAGE CHART

	IC201(MT1336E)		IC202(MOTOR)		IC501(MT1379)		IC502(SDRAM)		IC505(EEPROM)		IC510(BUFFER)		IC5A1(FLASH)		IC401(CS4391)		IC402(AMP)		IC5C1(MM1820XFB)	
PIN	STOP	PLAY	STOP	PLAY	STOP	PLAY	STOP	PLAY	STOP	PLAY	STOP	PLAY	STOP	PLAY	STOP	PLAY	STOP	PLAY	STOP	PLAY
1	1.03	2.99	0	0	1.22	1.22	3.27	3.28	0	0	0	0	STOP	PLAY	STOP	PLAY	STOP	PLAY	STOP	PLAY
2	5.11	5.08	0	0	0	0	1.18	1.26	0	0	2.59	2.55	0	0	0.08	0.16	3.28	3.29	5.52	5.49
3	0	0	8.04	8.01	0.96	0.9	1.1	1.52	0	0	0	0	0	0	0.08	0.16	3.28	3.29	5.52	5.49
4	0	0	0.12	0.06	2	2.06	0	0	0	0	2.59	2.56	1.82	0.45	3.28	3.28	5.52	5.48	2.43	2.42
5	5.11	5.07	0	0.06	0	1.51	0.66	1.07	3.28	3.29	0	0	2.84	0	0	1.65	5.51	5.47	5.09	5.08
6	0	1.95	3.64	3.69	1.48	1.47	0.85	1.12	3.28	3.29	3.24	3.23	2.83	3.12	1.63	1.64	0	0	1.45	0
7	0	0	3.62	3.61	0	1.56	3.27	3.28	0	0	0	0	0.69	0.26	1.64	1.65	5.51	5.48	0	0
8	0	0	3.64	3.53	3.2	1.52	0.51	0.97	3.28	3.29	0.14	0.08	1.72	0.25	1.59	1.61	5.51	5.48	1.45	1.69
9	5.11	0	3.6	3.76	0.12	0.06	3.06	0			0	0	1.92	0.9	0	0				
10	5.11	5.08	3.62	2.43	0.12	0.06	0	0			0	0	1.7	1.45	3.28	0	12.03	12.03	2.47	2.46
11	5.11	5.08	3.63	4.85	3.25	3.25	0.06	0.98			0.15	0.09	0	0	3.28	3.29			0	0
12	0	0	3.62	3.72	1.41	1.49	3.18	0.87			0	0	0	0	0	0			1.14	1.76
13	5.11	0	3.64	3.57	1.41	1.41	3.27	3.28			0.15	0.08	3.27	3.29	5.01	5.01			0	0
14	5.11	5.08	8.04	8.01	0	0	2.94	2.56			5.19	5.19	3.56	3.55	2.31	2.31			2.42	2.42
15	2.84	2.81	1.45	1.48	1.42	1.42	0.47	0.42			0.14	0.09	3.29	3.29	4.96	0			5.09	5.08
16	1.45	1.43	0.27	1.39	3.3	0	2.93	3.01			5.25	5.24	0	0	1.42	2.41			2.43	2.42
17	2.08	2.07	0.29	1.32	2.53	2.53	3.21	3.22			0.15	0.08	0.23	0.06	2.4	2.39			0	0
18	1.37	1.42	1.45	1.43	1.42	2.27	2.87	2.95			5.23	5.23	0	0	0	0			2.49	2.47
19	0.69	2.3	1.45	1.43	1.42	1.39	0.15	1.32			0	0	0	0	5.11	5.09			0	0
20	2.4	0	1.45	0.82	0	0	0	0.05			5.25	5.25	0	0	0.87	2.41			2.48	2.47
21	2.35	0	1.45	1.43	2.61	2.58	3.09	1.32					1.98	2.64	2.43	2.43			0	0
22	5.11	5.08	1.45	1.43	0.75	1.46	3.09	1.32					2.28	2.18	0	0			1.18	2.3
23	0	0	1.47	1.37	2.83	1	3.09	1.32					2.13	1.96					1.76	2.17
24	2.59	3.2	1.45	1.43	1.9	0.89	3.09	1.33					1.67	2.01					0	0
25	0.19	1.88	1.45	1.43	1.72	0.39	3.27	3.29					1.99	1.72					1.76	2.24
26	1.58	0	0.95	0.91	0.68	0.31	0	0					1.93	2.19					0	0
27	2.56	3.13	0	0	2.84	3.16	0.15	1.36					2.05	1.94					0	0
28	2	2.01	1.45	1.43	0	0	1.84	2.36					0	0					0	0
29	2	2.06	5.15	5.11	2.85	0.66	1	2.32					0	0					0.06	0.05
30	2.96	1.52	1.45	1.43	1.83	0.49	0.54	1.75					0	0					5.09	0
31	0	0	1.45	1.43	0.91	1.39	0.06	0.06					1.49	2.03						
32	0.06	2.07	1.45	1.43	1.43	1.2	0.05	0.06					0.16	1.07						
33	0.07	2.07	1.46	1.45	1.51	1.57	0	0					1.96	1.25						
34	0	0	5.08	5.06	1.51	1.43	0.73	1.26					0.16	1.1						
35	0	0	5.15	5.11	3.3	3.29	1.48	1.55					0.99	2.2						
36	0	0	0	0	0.81	1.26	2.91	2.53					1.17	1.07						
37	5.13	0			1.45	1.02	0.07	0					0.79	1.82						
38	0	0			1.82	1.6	3.27	3.28					0.15	1.07						
39	0	0			1.2	1.5	1.06	1.05					3.29	3.3						
40	0	0			2	2.06	0.47	0.98					1.93	3.09						
41	0	0			2.17	1.95	0	0					0.16	1.07						
42	5.12	5.09			2.53	2.52	0	0.6					1.5	2.2						
43	5.12	5.09			1.96	1.9	1.12	1.24					0.16	1.07						
44	5.12	5.09			1.79	1.9	3.27	3.28					1.21	2.64						
45	5.12	5.09			0.8	1.72	1.21	0.99					0.16	1.08						
46	5.12	5.09			0.8	1.96	1.31	1.34					1.64	1.48						
47	0	0			0.8	1.84	0	0					2.05	2.06						
48	5.12	5.09			3.3	2.63	1.43	1.44					0	0						
49	5.12	0			0	0.13	0.88	1.01					0	0						
50	5.08	5.06			0	0.07	0	0					0.07	0.13						
51	5.09	5.07			0	0														
52	5.1	0			0	0														
53	0	0			0	0														
54	5.13	0			0	0														
55	0.09	0.2			3.25	3.27														
56	1.61	0			1.21	1.18														
57	0	0			0	0														
58	0	0			3.29	3.29														
59	0	0			0	0														
60	0	0			0	0														
61	3.28	0			2.59	2.57														
62	0	0			2.58	2.58														
63	0	0			0	0														
64	0	0			2.59	2.56														
65	0	0			3.29	3.29														
66	0.26	0			3.3	3.29														
67	5.12	5.08			3.29	3.29														
68	0	0			2.57	2.56														
69	5.12	0			5.19	5.18														
70	3.21	2.03			2.59	2.57														
71	3.46	2.2			0.12	0.08														
72	2.81	0			2.53	2.52														
73	0	0			2.59	2.57														
74	0.21	0.09			3.29	3.29														
75	0.22	0			2.61	2.61														
76	0	0.1			3.27	3.24														
77	0.21	0.09			0	0														
78	0.23	0.09			0.94	1.04														
79	0.21	0.08			0.78	1.06														
80	0.23	0.08			0.89	1.15														

	IC201(MT1336E)		IC202(MOTOR)		IC501(MT1378)		IC502(SDRAM)		IC505(EEPROM)		IC510(BUFFER)		IC5A1(FLASH)		IC401(CB4201)		IC402(AMP)		IC5C1(MM1823XFE)	
PIN	STOP	PLAY	STOP	PLAY	STOP	PLAY	STOP	PLAY	STOP	PLAY	STOP	PLAY	STOP	PLAY	STOP	PLAY	STOP	PLAY	STOP	PLAY
81	0.22	0			0.99	1.34														
82	0	0			2.52	2.52														
83	0	0			3.09	1.33														
84	0.07	0			0.37	1.16														
85	0.07	2.27			3.08	1.1														
86	1.97	0			3.07	1.08														
87	1.96	1.9			0.59	1.04														
88	1.54	1.71			1.57	2.53														
89	0.19	2.22			3.2	3.13														
90	0.21	0			2.77	2.53														
91	0.22	0.06			0.22	1.68														
92	0.22	0			0	0														
93	0.23	0.06			3.32	1														
94	0.23	0.06			0.16	1.58														
95	2.28	0			3.31	1.62														
96	2.28	2.25			3.3	1.08														
97	2.27	1.23			3.3	3.29														
98	2.27	2.23			3.32	1.62														
99	2.27	2.23			0.16	1.09														
100	2.26	2.23			3.32	1.27														
101	2.08	2.17			3.3	1.32														
102	2.07	2.17			0	0														
103	2.07	2.18			1.56	1.55														
104	2.08	0			0.94	1.25														
105	0.14	0.15			0.41	0														
106	0.14	0.16			0.05	0.06														
107	0	0			0	0.06														
108	1.28	1.28			3.27	3.26														
109	5.18	5.05			0	0														
110	0.14	0.16			0.19	1.74														
111	0.15	0.15			3.3	3.29														
112	0.13	0.16			0.18	1.62														
113	0.14	0.15			2.98	2.38														
114	5.1	5.05			3.02	1.48														
115	2.07	2.09			0	0														
116	2.06	2.09			2.86	3.01														
117	0	0			2.86	2.54														
118	0	0			0	0														
119	0	0			0	2.5														
120	5.1	5.05			2.55	2.51														
121	0.13	0.15			3.03	1.4														
122	0.14	0.15			3.03	1.4														
123	0	0.18			0.22	1.39														
124	0	0.18			0.22	0.34														
125	5.08	5.03			0	0														
126	5.08	3.16			3.31	0.98														
127	0.06	2.08			0.26	1.64														
128	0	0			3.31	1.53														
129					3.3	1.15														
130					3.3	3.29														
131					3.31	1.49														
132					0.16	0.89														
133					3.3	0														
134					3.3	1.07														
135					0	0														
136					2.86	2.53														
137					2.86	2.53														
138					0.07	0.86														
139					0.09	0.99														
140					0.07	2.51														
141					0.07	0.94														
142					0.09	1.13														
143					0.07	1.19														
144					0.09	1.07														
145					0.09	0														
146					0	1.51														
147					0.09	1.25														
148					0.07	1.64														
149					0.06	0														
150					0	1.65														
151					0.07	3.29														
152					0	1.6														
153					0	1.64														
154					0	1.44														
155					0	0														
156					0	0														
157					0	1.63														
158					0	3.29														
159					0	3.27														
160					0	1.27														

PRINTED CIRCUIT DIAGRAMS
1. MAIN P.C.BOARD



		LOCATION GUIDE	
J10501	F3	C201	L8
J10502	G3	C202	L9
J10503	G3	C203	L9
J10504	G3	C204	L9
J10505	G3	C205	L9
J10506	G4	C206	L9
J10507	G4	C207	L9
J10508	G4	C208	L9
J10509	F3	C209	L8
J10510	G3	C210	L9
J10511	F3	C211	L8
J10512	F4	C212	L8
J10513	G4	C213	L9
J10514	F4	C214	L8
J10515	F4	C215	L8
J10516	F4	C216	L8
J10517	F4	C217	L8
J10518	F4	C218	L8
J10519	F4	C219	L8
J10520	G3	C220	L9
J10521	G3	C221	L9
J10522	G3	C222	L9
J10523	G3	C223	L9
J10524	G3	C224	L9
J10525	G3	C225	L9
J10526	G3	C226	L9
J10527	G3	C227	L9
J10528	G3	C228	L9
J10529	G3	C229	L9
J10530	G3	C230	L9
J10531	G3	C231	L9
J10532	G3	C232	L9
J10533	G3	C233	L9
J10534	G3	C234	L9
J10535	G3	C235	L9
J10536	G3	C236	L9
J10537	G3	C237	L9
J10538	G3	C238	L9
J10539	G3	C239	L9
J10540	G3	C240	L9
J10541	G3	C241	L9
J10542	G3	C242	L9
J10543	G3	C243	L9
J10544	G3	C244	L9
J10545	G3	C245	L9
J10546	G3	C246	L9
J10547	G3	C247	L9
J10548	G3	C248	L9
J10549	G3	C249	L9
J10550	G3	C250	L9
J10551	G3	C251	L9
J10552	G3	C252	L9
J10553	G3	C253	L9
J10554	G3	C254	L9
J10555	G3	C255	L9
J10556	G3	C256	L9
J10557	G3	C257	L9
J10558	G3	C258	L9
J10559	G3	C259	L9
J10560	G3	C260	L9
J10561	G3	C261	L9
J10562	G3	C262	L9
J10563	G3	C263	L9
J10564	G3	C264	L9
J10565	G3	C265	L9
J10566	G3	C266	L9
J10567	G3	C267	L9
J10568	G3	C268	L9
J10569	G3	C269	L9
J10570	G3	C270	L9
J10571	G3	C271	L9
J10572	G3	C272	L9
J10573	G3	C273	L9
J10574	G3	C274	L9
J10575	G3	C275	L9
J10576	G3	C276	L9
J10577	G3	C277	L9
J10578	G3	C278	L9
J10579	G3	C279	L9
J10580	G3	C280	L9
J10581	G3	C281	L9
J10582	G3	C282	L9
J10583	G3	C283	L9
J10584	G3	C284	L9
J10585	G3	C285	L9
J10586	G3	C286	L9
J10587	G3	C287	L9
J10588	G3	C288	L9
J10589	G3	C289	L9
J10590	G3	C290	L9
J10591	G3	C291	L9
J10592	G3	C292	L9
J10593	G3	C293	L9
J10594	G3	C294	L9
J10595	G3	C295	L9
J10596	G3	C296	L9
J10597	G3	C297	L9
J10598	G3	C298	L9
J10599	G3	C299	L9
J10600	G3	C300	L9

SECTION 4 MECHANISM OF VCR PART

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MECHANISM TROUBLESHOOTING GUIDE

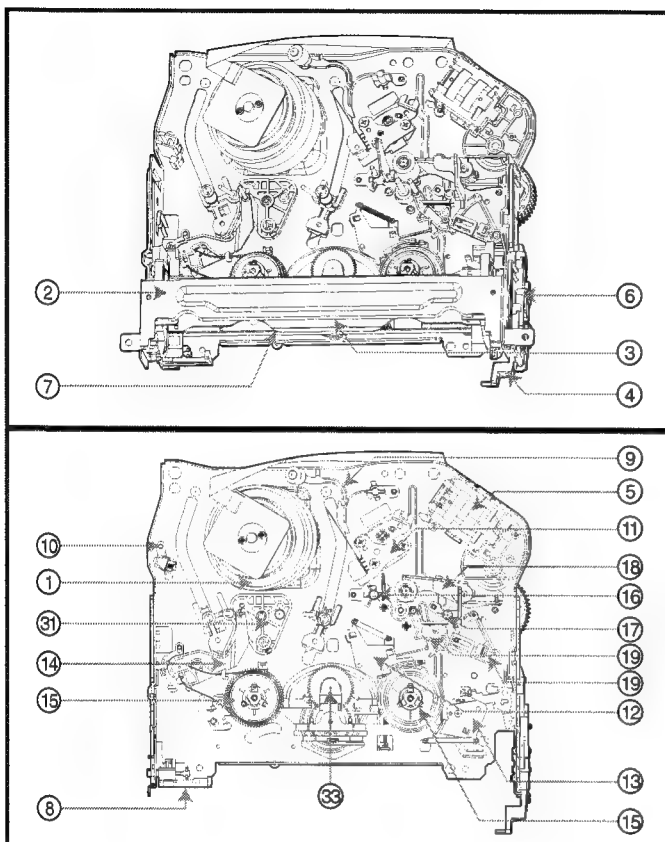
1. Deck Mechanism.....4-23
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EXPLODED VIEWS

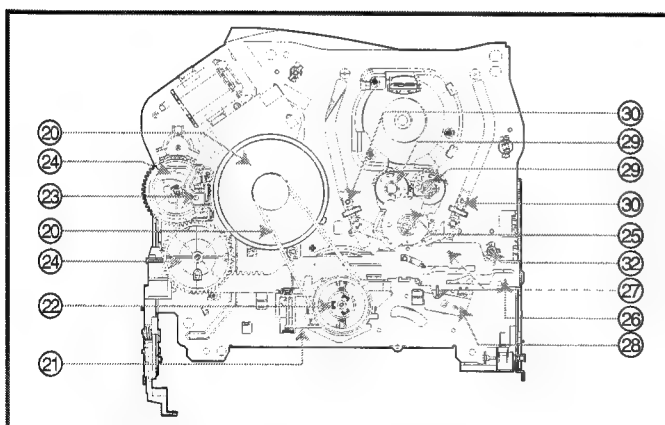
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-

DECK MECHANISM PARTS LOCATIONS

• Top View



• Bottom View



NOTE : When reassembly perform the procedure in the reverse order.

- 1) When reassembling, confirm Mechanism and Mode Switch Alignment Position (Refer to Page 4-13)
- 2) When disassembling, the Parts for Starting No. Should be removed first.

Procedure Starting No.	Part	Fixing Type	Figure	View
1	Drum Assembly	3 Screw	A-1	T
2	Plate Top	2 Hook	A-2	T
2	3 Holder Assembly CST	Chassis Hole	A-2	T
2	4 Opener Door	Chassis Hole	A-2	T
	5 Bracket Assembly L/D Motor	3 Hook	A-2	T
2,3,4	6 Gear Assembly Rack F/L	1 Hook, Chassis Hole	A-2	T
2,3,4,6	7 Arm Assembly F/L	Chassis Hole	A-2	T
	8 Lever Assembly S/W	1 Hook	A-2	T
	9 Arm Assembly Cleaner	Chassis Embossing	A-3	T
	10 Head F/E	Chassis Embossing	A-3	T
	11 Base Assembly A/C Head	1 Screw	A-3	T
2,3	12 Brake Assembly T	1 Hook	A-4	T
2,3	13 Brake Assembly RS	1 Hook	A-4	T
2,3	14 Arm Assembly Tension	2 Hook	A-4	T
2,3,12,13, 14	15 Reel S/Reel T		A-4	T
	16 Base Assembly P4	Chassis Embossing	A-5	T
	17 Opener Lid	Chassis Embossing	A-5	T
17	18 Arm Assembly Pinch	Shaft	A-5	T
17	19 Lever T/Up / Arm T/Up	1 Hook	A-5	T
17,18	20 Belt Capstan/Motor Capstan	3 Screw	A-6	B
	21 Lever F/R	Locking Tab	A-6	B
20, 21	22 Clutch Assembly D35	Washer	A-6	B
	23 Brake Assembly Capstan	Locking Tab	A-6	B
	24 Gear Drive/Gear Cam	Washer/Hook	A-7	B
	25 Gear Sector	1 Hook	A-7	B
20,21,23, 24,25	26 Plate Slider	Shaft Guide	A-7	B
20,21,23, 24,25,26	27 Lever Tension	1 Hook	A-7	B
2,3,14,20, 21,25,23, 24,26	28 Lever Spring	Locking Tab	A7	B
25	29 Gear Assembly P2/Gear Assembly P3	Boss	A-8	B
2,3,14,25, 29	30 Base Assembly P2/Base Assembly P3	Chassis Slot	A-8	B
2,3,14,25, 29	31 Base Loading	1 Screw	A-9	T
2,3,14	32 Base Tension	Chassis Embossing	A-9	B
2,3,20,21, 22	33 Arm Assembly Idler	Locking Tab	A-9	T

T:Top, B:Bottom

DECK MECHANISM DISASSEMBLY

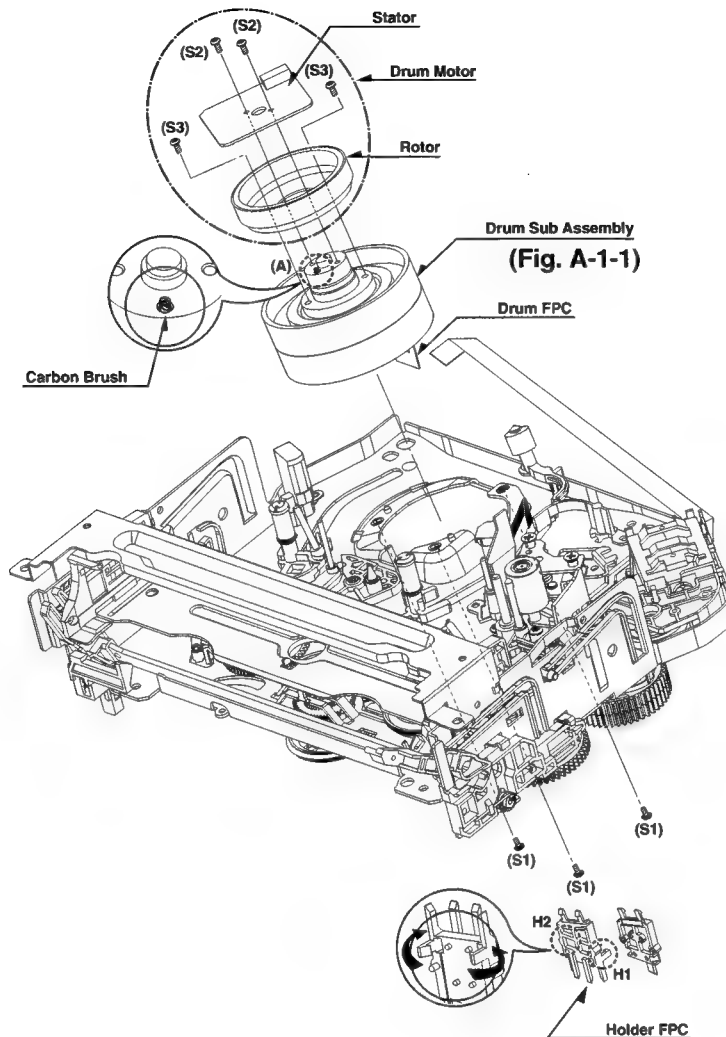


Fig. A-1

1. Drum Assembly (Fig. A-1-1)

- 1) Unplug the Drum FPC Connector.
- 2) Remove three Screws(S1) on bottom side and separate the Drum assembly.
- 3) Unhook (H1), (H2) and separate the Holder FPC and Cap FPC.

1-1. Drum Motor

- 1) Remove two Screws(S2) and disassemble the Stator of the Drum Motor.
- 2) Remove two Screws(S3) and separate the Rotor of the Drum Motor from the Drum Sub assembly.

NOTE

When reassembling, confirm (A) portion of the Drum Sub assembly whether the Carbon Brush is in there or not.

(Fig. B-1)

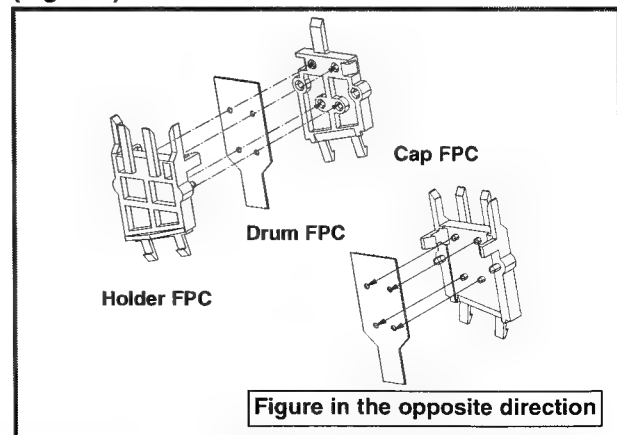


Figure in the opposite direction

DECK MECHANISM DISASSEMBLY

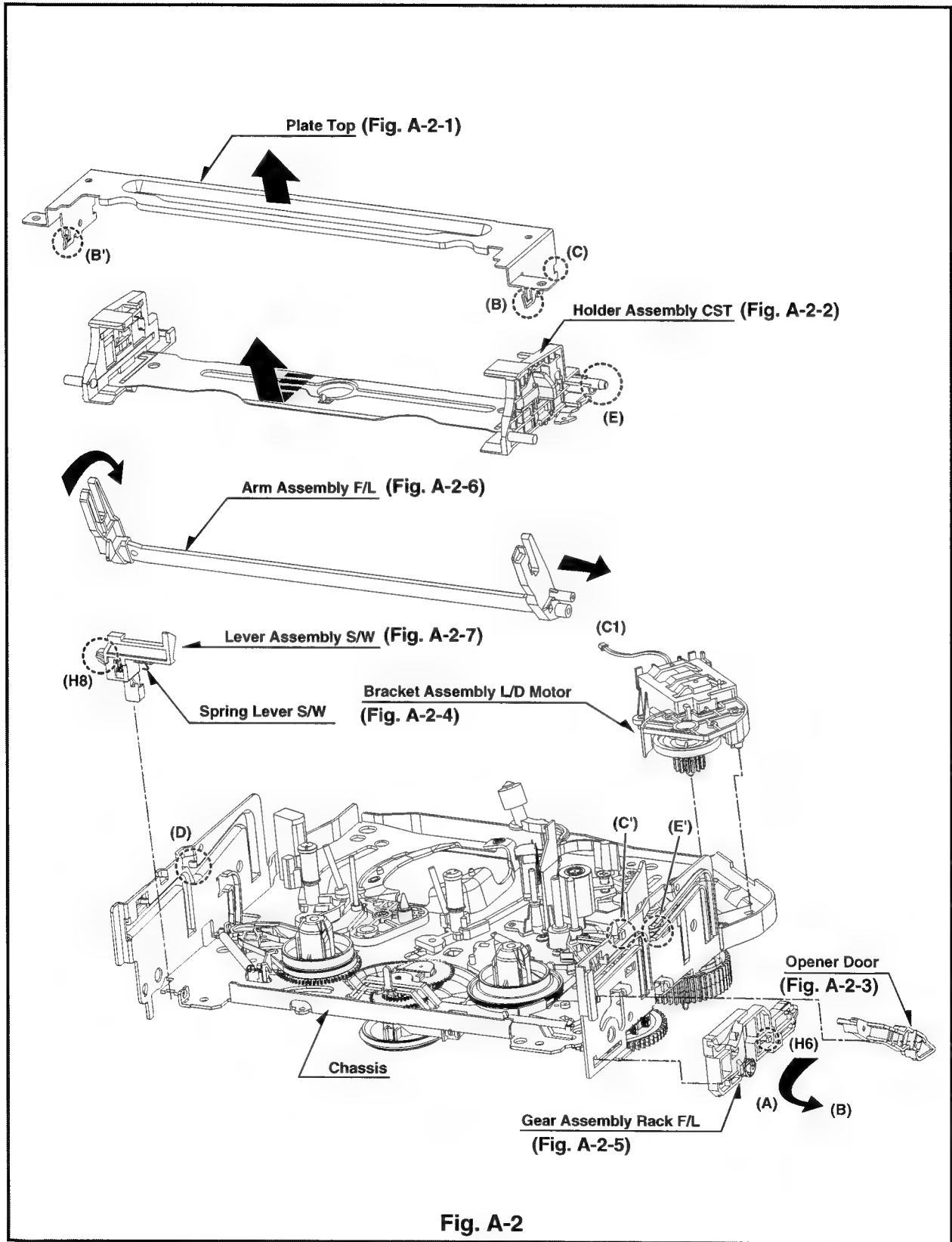


Fig. A-2

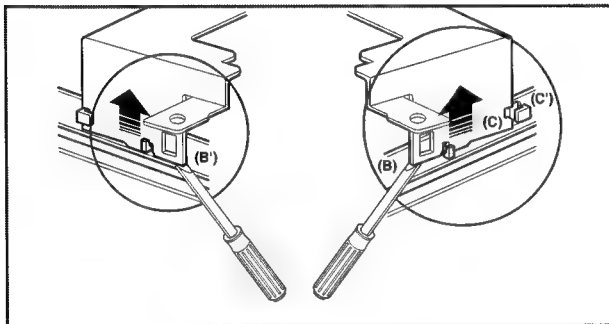
DECK MECHANISM DISASSEMBLY

2. Plate Top (Fig. A-2-1)

- 1) Pull the (B) portion of the Plate Top back in direction of arrow and separate the right side of it.
- 2) pull the (B') portion of the Plate Top back in direction of arrow and separate the left side of it.
(Used tools : (-) type driver, anything tool with sharp point or flat point.)

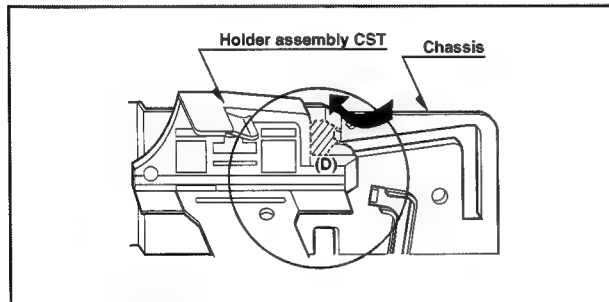
NOTE

- (1) When reassembling, push the Plate Top after alignment the two position(C), (C') as below Fig.



3. Holder Assembly CST (Fig.A-2-2)

- 1) Move the Holder Assembly CST in direction of arrow and separate the left side of it first through the (D) position of the Chassis.



- 2) Disassemble the right side of the Holder Assembly CST from each guided hole of the Chassis.

NOTE

When reassembling, insert the (E) part of the Holder Assembly CST in the (E') hole of the Chassis first and assemble the left side of it.

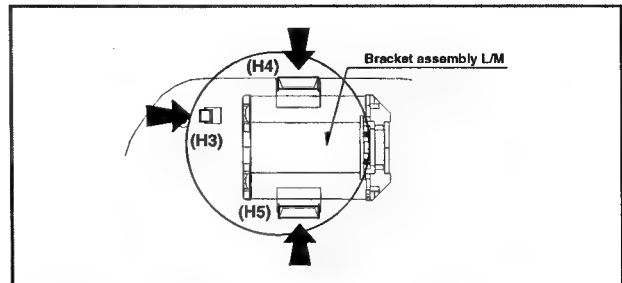
4. Opener Door (Figure. A-2-3)

- 1) Turn the Opener Door clockwise and remove it through the guide hole of the Chassis.

5. Bracket Assembly L/D Motor (Fig. A-2-4)

- 1) Unplug the Connector(C1).

- 2) Unhook three Hooks(H3, H4, H5) on bottom side of the Chassis, lift up the Bracket Assembly L/M and disassemble the Bracket Assembly L/D Motor.

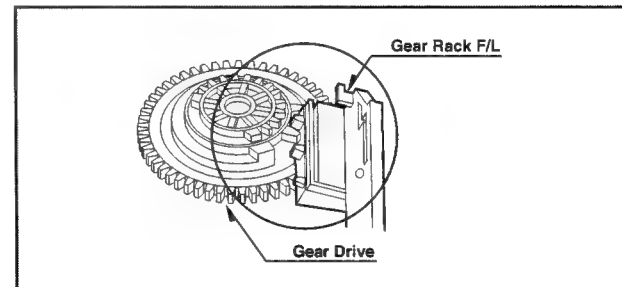


6. Gear Assembly Rack F/L (Fig. A-2-5)

- 1) Move the Gear Assembly Rack F/L in direction of arrow(A) and unhook the Hook(H6) pulling back in front.
- 2) Separate the Gear Rack F/L in direction of arrow(B).

NOTE

When reassembling, align the gear part of the Gear Assembly Rack F/L with the Gear Drive as below Fig.

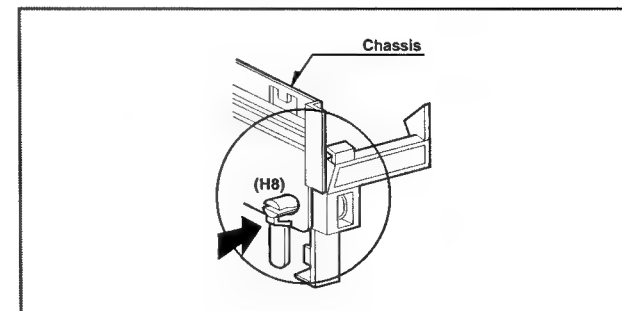


7. Arm Assembly F/L (Fig. A-2-6)

- 1) Move the Arm Assembly F/L in direction of arrow and separate the left side of it first.
- 2) Disassemble the Arm Assembly F/L from each guided hole of the Chassis.

8. Lever Assembly S/W(Fig. A-2-7)

- 1) Unhook the Hook(H8) in the left side of the Chassis and remove the Lever Assembly S/W.



DECK MECHANISM DISASSEMBLY

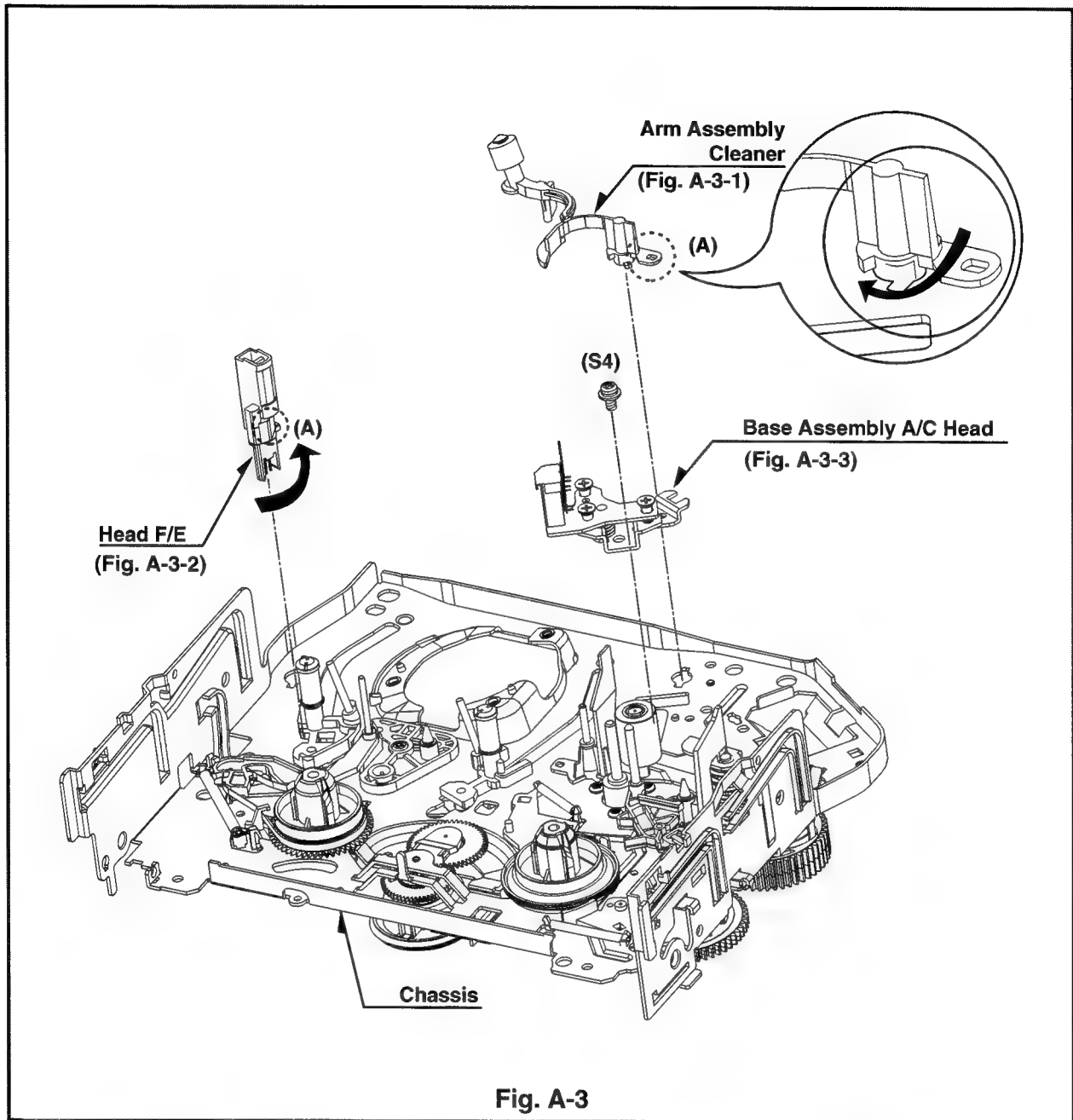


Fig. A-3

9. Arm Assembly Cleaner (Fig. A-3-1)

- 1) Breakaway the (A) portion as Fig. A-3-1 from the embossing of the Chassis, turn the Arm assembly Cleaner to clockwise direction and lift it up.

10. Head F/E (Fig. A-3-2)

- 1) Breakaway the (A) portion of the Head F/E from the embossing of the Chassis, turn it to counterclockwise direction and lift it up.

11. Base Assembly A/C Head (Fig. A-3-3)

- 1) Remove the Screw(S4) and lift the Base Assembly A/C Head up.

DECK MECHANISM DISASSEMBLY

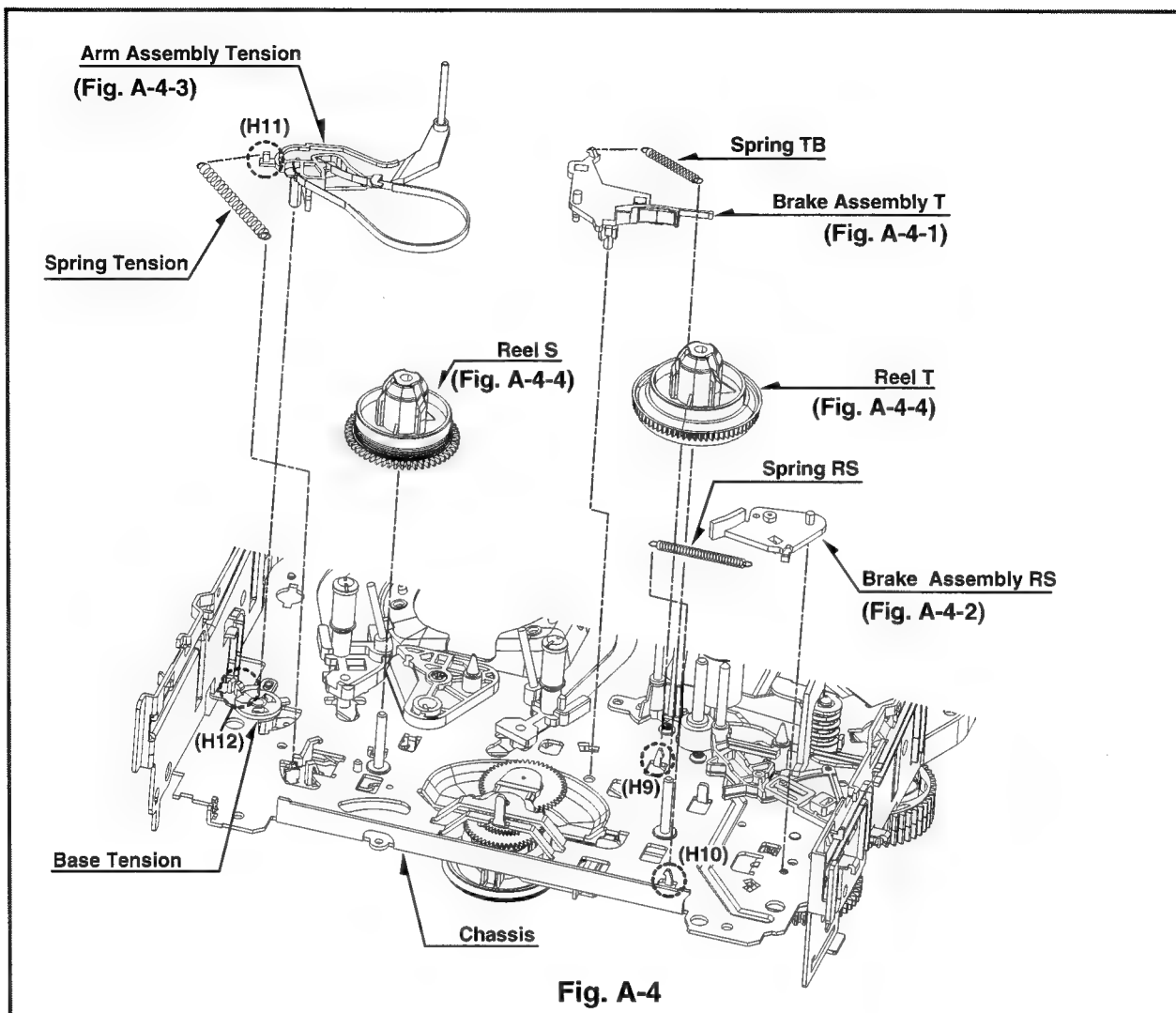


Fig. A-4

12. Brake Assembly T (Fig. A-4-1)

- 1) Unhook the Spring TB from the Hook(H9) of the Chassis.
- 2) Lift the Brake Assembly T up.

13. Brake Assembly RS (Fig. A-4-2)

- 1) Unhook the Spring RS from the Hook(H10) of the Chassis.
- 2) Lift the Brake Assembly T up.

14. Arm Assembly Tension (Fig. A-4-3)

- 1) Unhook the Spring Tension from the Hook(H11) of the Arm Assembly Tension.
- 2) Unhook the Hook(H12) of the Base Tension and lift the Arm Assembly Tension up.

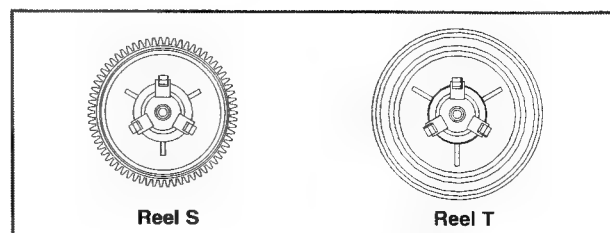
NOTE

Difference for Springs

	Spring TB
	Spring RS Color (Black)
	Spring Tension

15. Reel S / Reel T (Fig. A-4-4)

- 1) Difference for Reel S / Reel T



DECK MECHANISM DISASSEMBLY

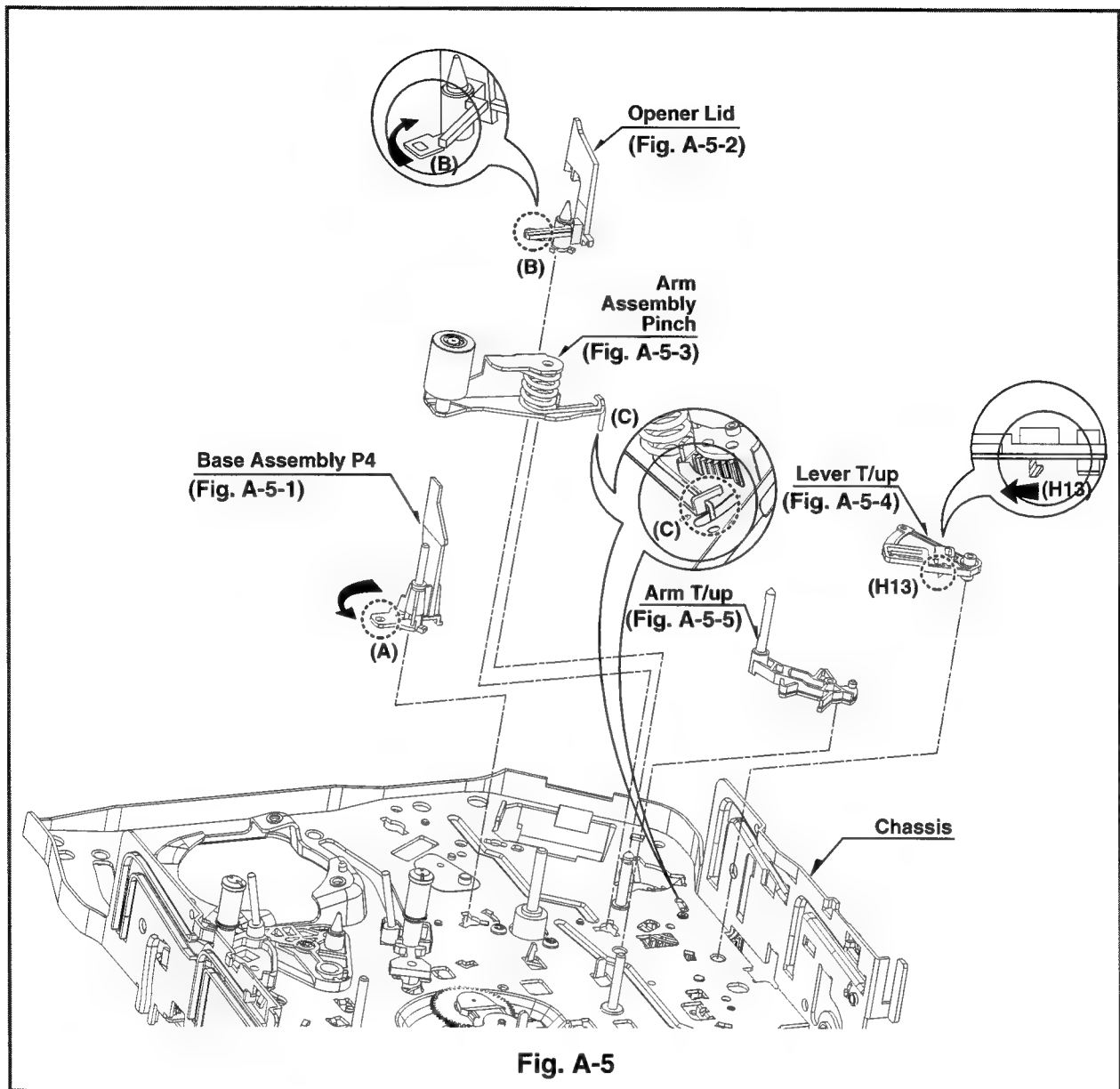


Fig. A-5

16. Base Assembly P4 (Fig. A-5-1)

- 1) Breakaway the (A) portion of the Base Assembly P4 from the embossing of the Chassis.
- 2) Turn the Base Assembly P4 to counterclockwise direction and lift it up.

17. Opener Lid (Fig. A-5-2)

- 1) Breakaway the (B) portion of the Opener Lid from the embossing of the Chassis.
- 2) Turn the Opener Lid to clockwise direction and lift it up.

18. Arm Assembly Pinch (Fig. A-5-3)

- 1) Lift the Arm Assembly Pinch up.

NOTE

When reassembling, confirm the (C) portion of the Arm Assembly Pinch is inserted to the Chassis hole correctly as Fig.

19. Lever T/up (Fig. A-5-4)/ Arm T/up (Fig. A-5-5)

- 1) Unhook the Hook(H13) of the bottom Chassis and lift the Lever T/up up.
- 2) Lift the Arm T/up up.

DECK MECHANISM DISASSEMBLY

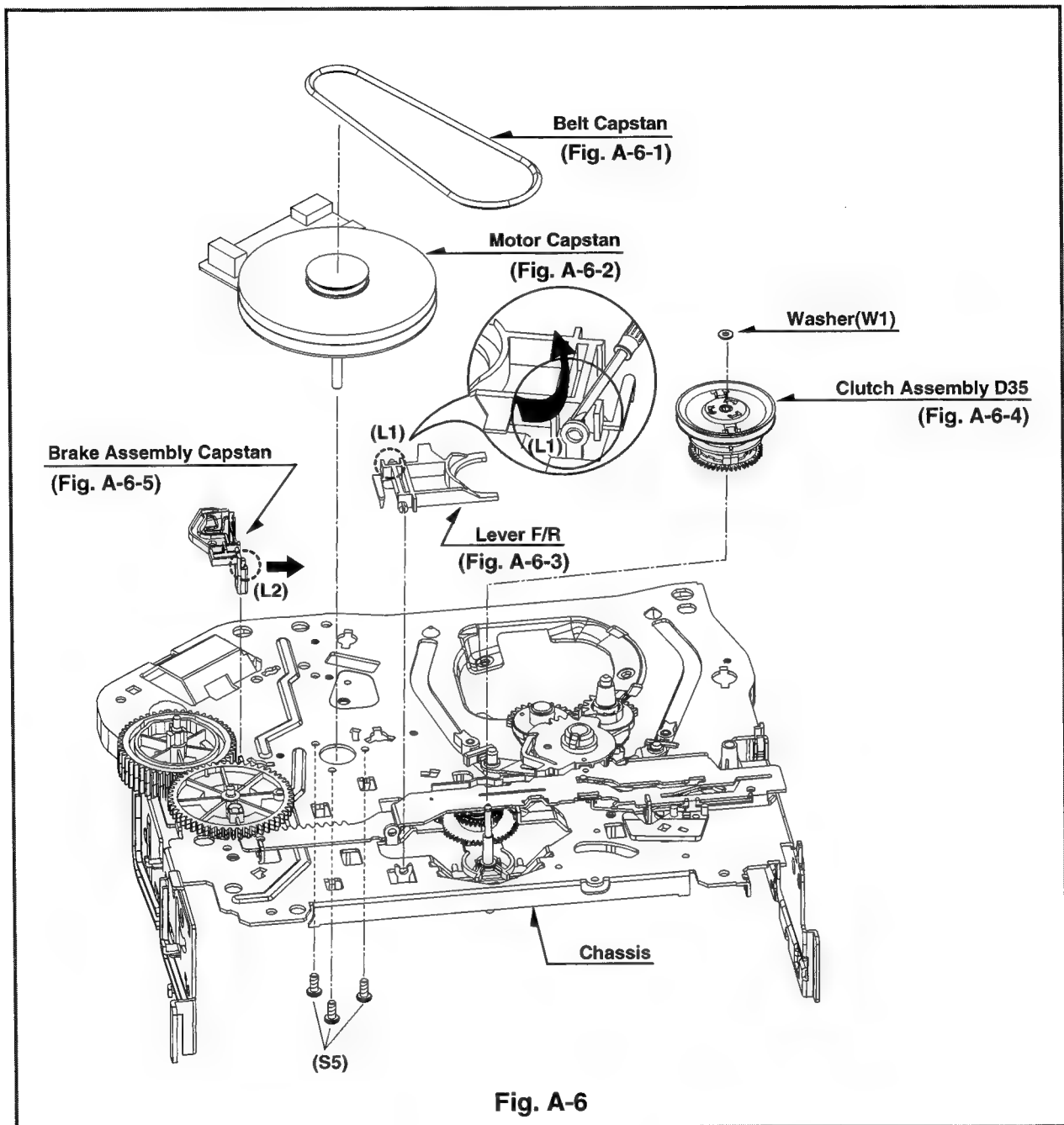


Fig. A-6

20. Belt Capstan (Fig. A-6-1)/ Motor Capstan (Fig. A-6-2)

- 1) Remove the Belt Capstan.
- 2) Remove the three Screws(S5) on bottom Chassis and lift the Motor Capstan up.

21. Lever F/R (Fig. A-6-3)

- 1) Unlock the Locking Tab(L1) as Fig. A-6-3 and lift the Lever F/R up.

22. Clutch Assembly D35 (Fig. A-6-4)

- 1) Remove the Washer(W1) and lift the Clutch Assembly D35 up.

23. Brake Assembly Capstan (Fig. A-6-5)

- 1) Pull the Locking Tab(L2) back in direction of arrow and lift it up.

DECK MECHANISM DISASSEMBLY

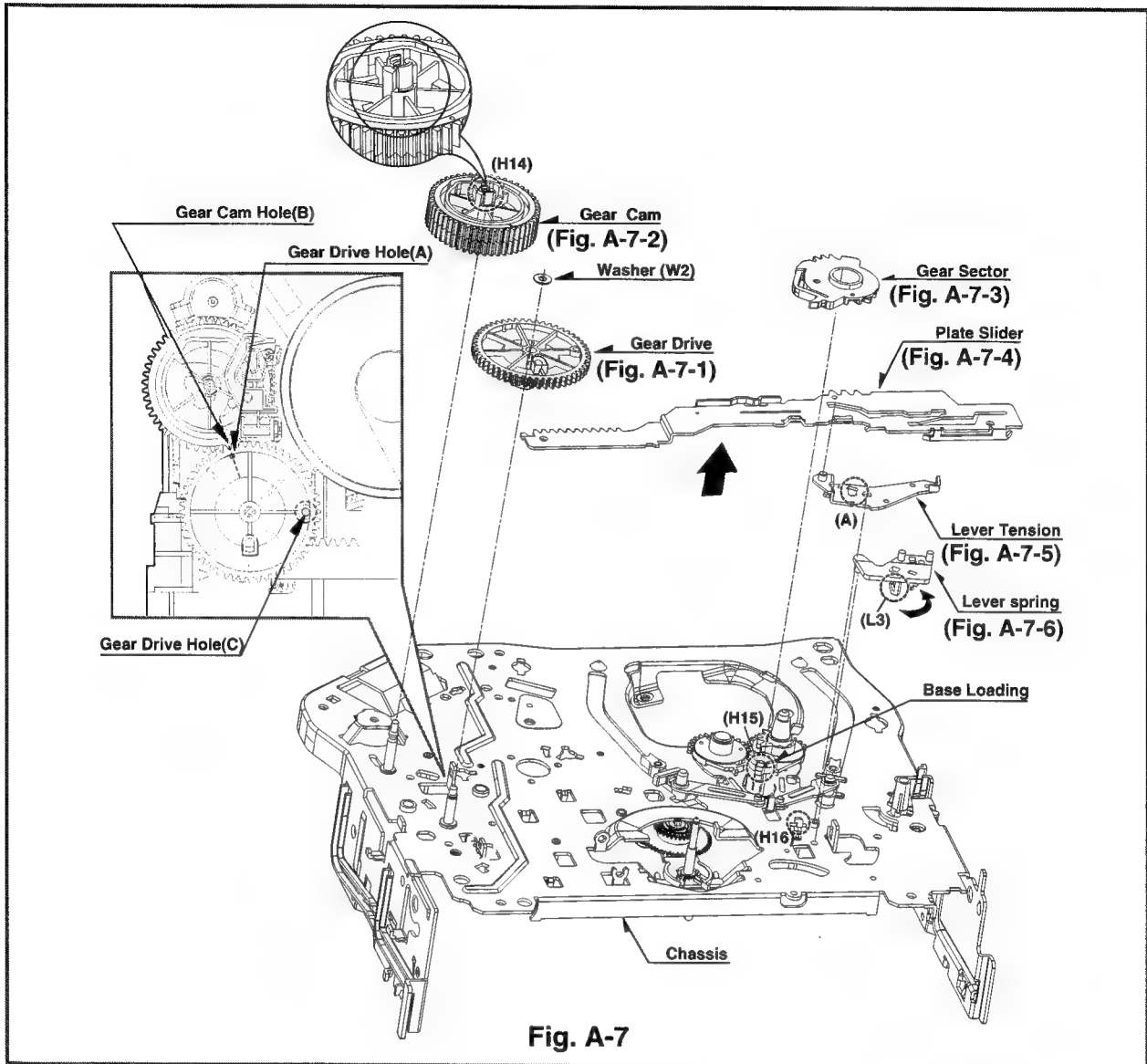


Fig. A-7

24. Gear Drive (Fig. A-7-1)/ Gear Cam (Fig. A-7-2)

- 1) Remove the Washer(W2) and lift the Gear Drive up.
- 2) Unhook the Hook(H14) of the Gear Cam and lift the Gear Cam up.

NOTE

When reassembling, align the Gear Drive Hole(A) and the Gear Cam Hole(B) in a straight line after the Gear Drive Hole(C) is aligned with the Chassis Hole as Fig.

25. Gear Sector (Fig. A-7-3)

- 1) Unhook the Hook(H15) of the Base Loading on bottom Chassis and lift the Gear Sector up.

26. Plate Slider (Fig. A-7-4)

- 1) Just lift the Plate Slider up.

27. Lever Tension (Fig. A-7-5)

- 1) Unhook the (A) portion of the Lever Tension from the Hook(H16) of the Chassis.
- 2) Turn the Lever Tension to counterclockwise direction and lift it up.

28. Lever Spring (Fig. A-7-6)

- 1) Unlock the Locking Tab(L3) of the bottom Chassis and lift the Lever Spring up.

DECK MECHANISM DISASSEMBLY

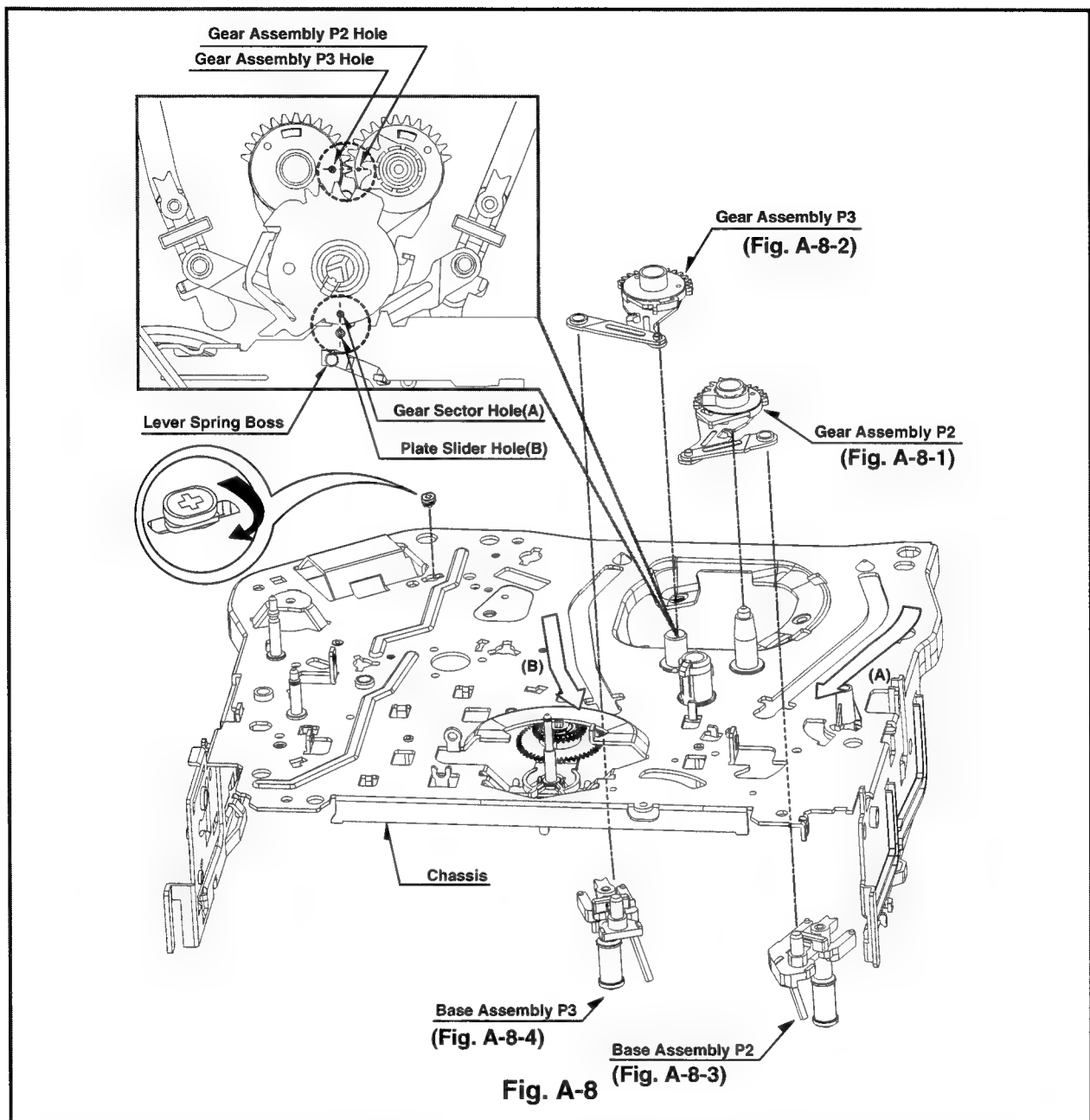


Fig. A-8

29. Gear Assembly P2 (Fig. A-8-1)/ Gear Assembly P3 (Fig. A-8-2)

- 1) Just lift the Gear Assembly P2 up.
- 2) Just lift the Gear Assembly P3 up.

NOTE

When reassembling, align the two holes of the Gear Assembly P2 and P3 in a straight line after confirmation whether the Gear Sector Hole(A) and the Plate Slider Hole(B) are aligned or not as Fig.

30. Base Assembly P2 (Fig. A-8-3)/ Base Assembly P3 (Fig. A-8-4)

- 1) Move the Base Assembly P2 in direction of arrow(A) along the guide hole of the Chassis and disassemble it on bottom side.
- 2) Move the Base Assembly P3 in direction of arrow(B) along the guide hole of the Chassis and disassemble it on bottom side.

DECK MECHANISM DISASSEMBLY

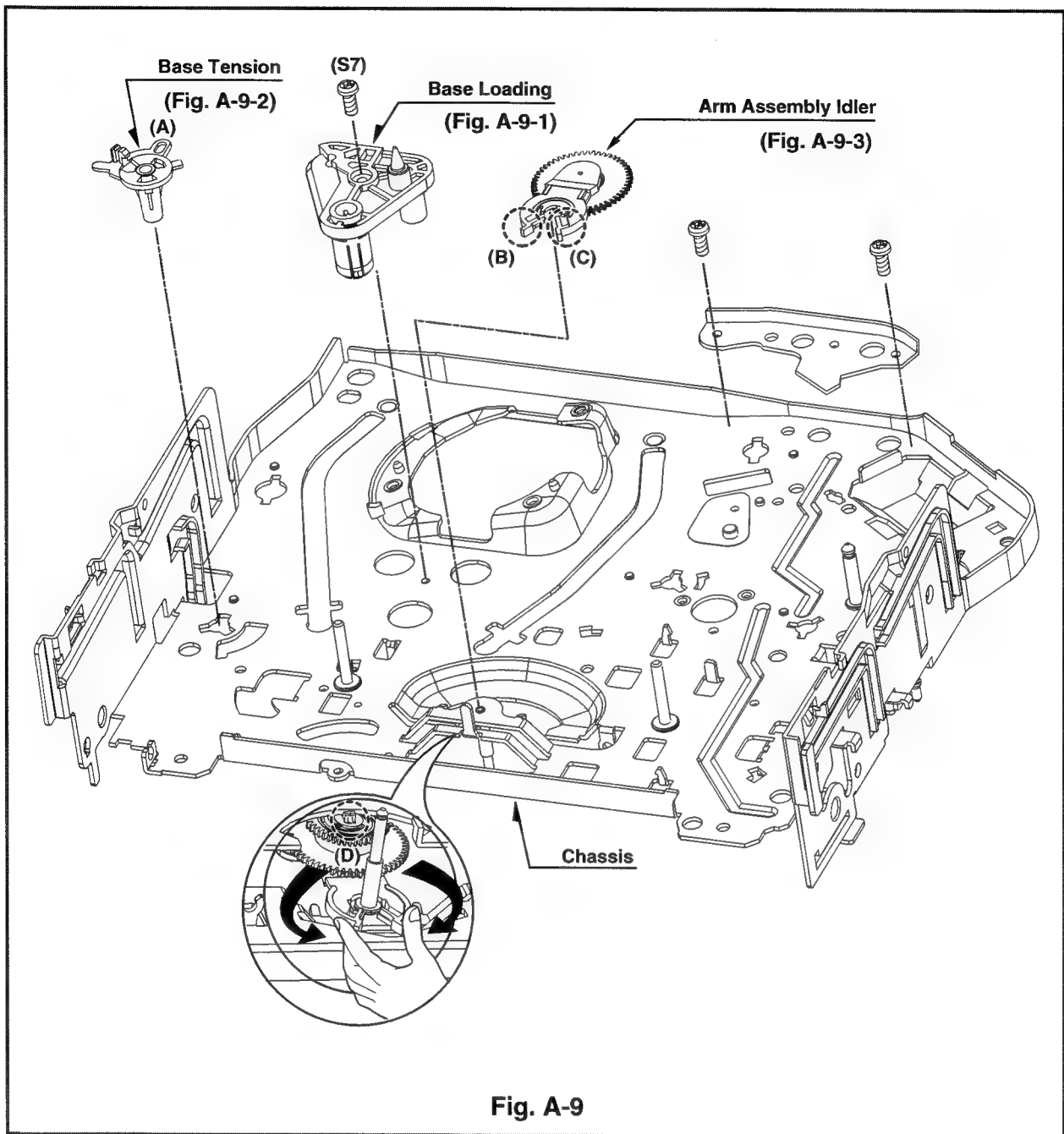


Fig. A-9

31. Base Loading (Fig. A-9-1)

- 1) Remove the Screw(S7).
- 2) Lift the Base Loading up.

32. Base Tension (Fig. A-9-2)

- 1) Breakaway the (A) portion of the Base Tension from the embossing of the Chassis.
- 2) Turn the Base Tension to counterclockwise direction and lift it up.

33. Arm Assembly Idler (Fig. A-9-3)

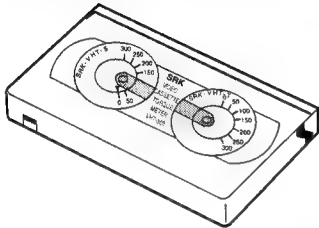
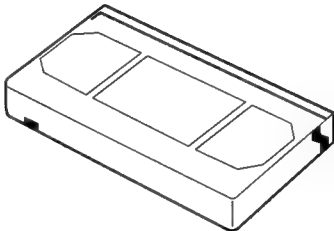

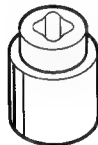
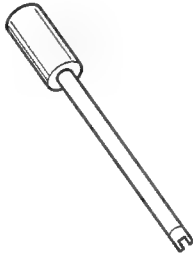
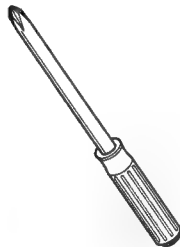
- 1) Make narrower the two parts, (B) and (C), as Fig. A-9-3.
- 2) Lift the Arm assembly Idler up.

NOTE

When disassembling, be careful not to be caught the (D) part by the Chassis as Fig.

DECK MECHANISM ADJUSTMENT

• Tools and Fixfures for Service

<p>1. Cassette Torque Meter SRK-VHT-303(Not SVC part) Parts No: D00-D006</p> 	<p>2. Alignment Tape Parts No NTSC: DTN-001 PAL:DTN-0002</p> 	<p>3. Torque Gauge 600g.Cm ATG Parts No:D00-D002</p> 
<p>4. Torque Gauge Adaptor Parts No:D09-R001</p> 	<p>5. Post Height Adjusting Driver Parts No:DTL-0005</p> 	<p>6. + Type Driver (ø 5)</p> 

DECK MECHANISM ADJUSTMENT

1. Mechanism Alignment Position Check

Purpose: To determine if the Mechanism is in the correct position, when a Tape is ejected.

Test Equipment/ Fixture	Test Conditions (Mechanism Condition)	Check Point
• Blank tape	• Eject Mode (with Cassette ejected)	• Mechanism and Mode Switch Position

- 1) Turn the Power S/W on and eject the Cassette by pressing the Eject Button.
- 2) Remove the Top Cover and Plate Assembly Top, visually check if the Gear Cam Hole is aligned with the Chassis Hole as below Fig. C-2.
- 3) IF not, rotate the Shaft of the Loading Motor to either clockwise or counterclockwise until the alignment is as below Fig. C-2.
- 4) Remove the Screw which fixes the Deck Mechanism and Main Frame and confirm if the Gear Cam is aligned with the Gear Drive as below Fig. C-1(A).
- 5) Confirm if the Mode S/W on the Main P.C.Board is aligned as below Fig. C-1(B).
- 6) Remount the Deck Mechanism on the Main P.C.Board and check each operation.

CHECK DIAGRAM

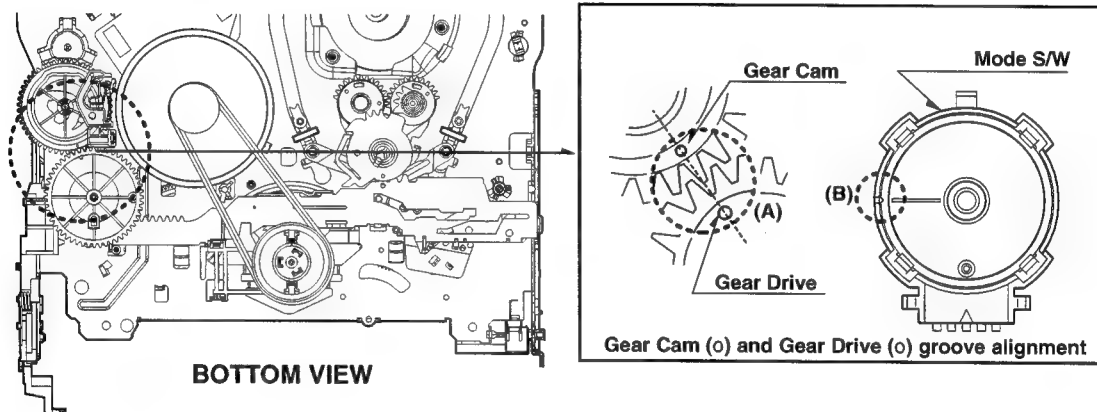


Fig. C-1

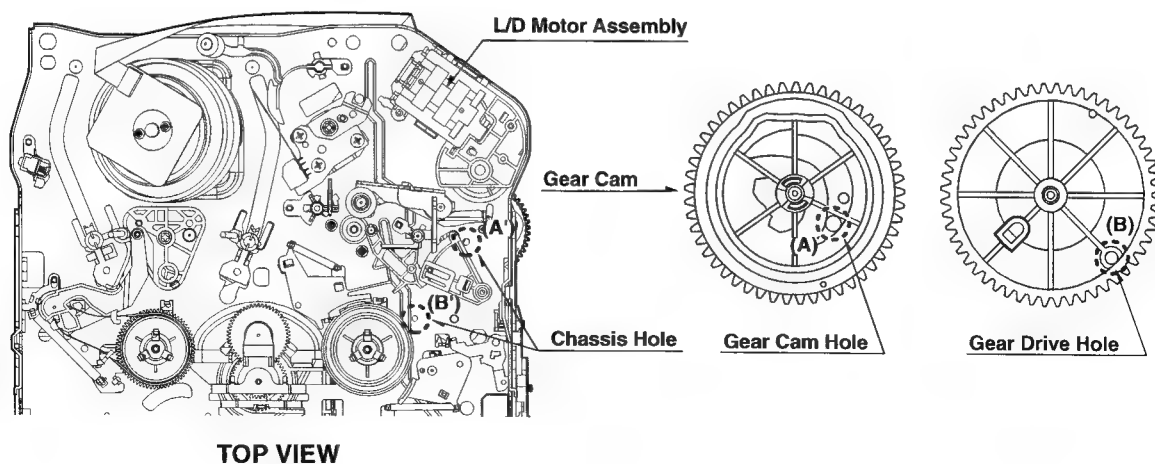


Fig. C-2

DECK MECHANISM ADJUSTMENT

2. Preparation for Adjustment (To set the Deck Mechanism of the loading state without inserting a cassette tape).

- 1) Unplug the power cord from the AC outlet.
- 2) Disassemble the Top Cover and Plate Assembly Top.
- 3) Plug the power cord into the AC outlet.
- 4) Turn the power S/W on and push the Lever Stopper of the Holder Assembly CST to the back for loading the

cassette without tape.

Cover the holes of the End Sensors at the both sides of the Chassis to prevent a light leak.

Then the Deck Mechanism drives to the Stop Mode. In this case, the Deck Mechanism can accept inputs of each mode, however the Rewind and Review operation can not be performed for more than a few seconds because the Take-up Reel Table is in the Stop State and can not be detected the Reel Pulses.

3. Checking Torque

Purpose: To insure smooth transport of the tape during each mode of operation.

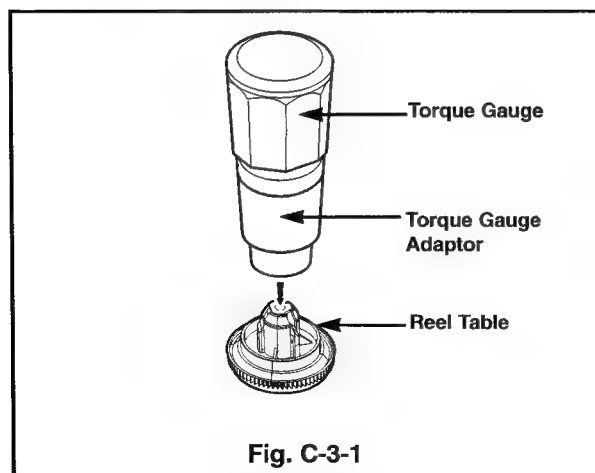
If the tape transport is abnormal, then check the torque as indicated by the chart below.

Test Equipment/ Fixture		Test Conditions (Mechanism Condition)	Checking Method	
<ul style="list-style-type: none">• Torque Gauge(600g/cm ATG)• Torque Gauge Adaptor• Cassette Torque Meter SRK-VHT-303		<ul style="list-style-type: none">• Play (FF) or Review (REW) Mode	<ul style="list-style-type: none">• Perform each Deck Mechanism mode without inserting a cassette tape(Refer to above No.2 Preparation for Adjustment).• Read the measurement of the Take-up or Supply Reels on the Cassette Torque Meter(Fig. C-3-2).• Attach the Torque Gauge Adaptor to the Torque Gauge and then read the value of it(Fig. C-3-1).	
Item	Mode	Test Equipment	Measurement Reel	Measurement Values
Fast Forward Torque	Fast Forward	Cassette Torque Gauge	Take-Up Reel	More than 400g/cm
Rewind Torque	Rewind	Cassette Torque Gauge	Supply Reel	More than 400g/cm
Play Take-Up Torque	Play	Cassette Torque Meter	Take-Up Reel	40~100g/cm
Review Torque	Review	Cassette Torque Meter	Supply Reel	120~210g/cm

NOTE:

The values are measured by using a Torque Gauge and Torque Gauge Adaptor with the Torque Gauge affixed.

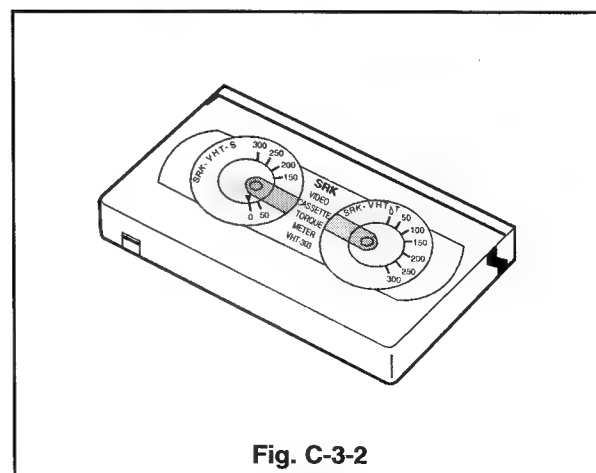
• Torque Gauge (600g.cm ATG)



NOTE:

The torque reading to measure occurs when the tape abruptly changes direction from Fast Forward to Rewind Mode, when quick braking is applied to both Reels.

• Cassette Torque Meter (SRK-VHT-303)



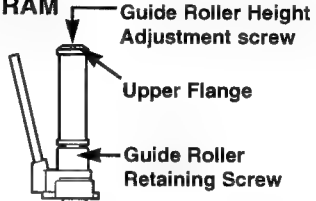
DECK MECHANISM ADJUSTMENT

4. Guide Roller Height Adjustment

Purpose: To regulate the height of the tape so that the bottom of the tape runs along the tape guide line on the Lower Drum.

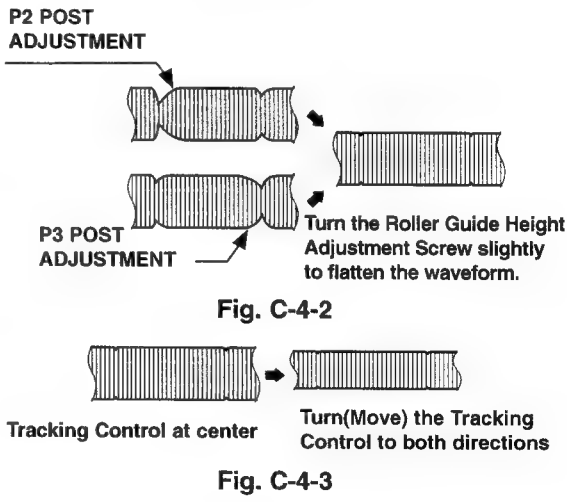
4-1. Preliminary Adjustment

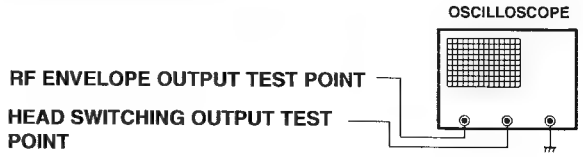
Test Equipment/ Fixture	Test Conditions (Mechanism Condition)	Adjustment Point
• Post Height Adjusting Driver	• Play or Review Mode	• Guide Roller Height Adjustment screws on the Supply and Take-Up Guide Rollers.

Adjustment Procedure <ol style="list-style-type: none"> 1) Confirm if the tape runs along the tape guide line of the Lower Drum. 2) If the tape runs the bottom of the guide line, turn the Guide Roller Height Adjustment Screw to clockwise direction. 3) If it runs the top, turn to counterclockwise direction. 4) Adjust the height of the Guide Roller to be guided to the guide line of the Lower Drum from the starting and ending point of the Drum. 	ADJUSTMENT DIAGRAM  <p>Fig. C-4-1</p>
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4-2. Precise Adjustment

Test Equipment/Fixture	Test Equipment Connection Points	Test Conditions VCR(VCP) State	Adjustment Point
• Oscilloscope • Alignment Tape • Post Height Adjusting Driver	• CH-1:PB RF Envelope • CH-2:NTSC: SW 30Hz PAL: SW 25Hz • Head Switching Output Point • RF Envelope Output Point	• Play an Alignment Tape	• Guide Roller Height Adjustment Screws

Adjustment Procedure <ol style="list-style-type: none"> 1) Play an Alignment Tape after connecting the probe of the Oscilloscope to the RF Envelope Output Test Point and Head Switching Output Test Point. 2) Tracking Control(in PB Mode) : Center Position(When this adjustment is performed after the Drum Assembly has been replaced, set the Tracking Control so that the RF Output is Maximum). 3) Height Adjustment Screw : Flatten the RF waveform. (Fig. C-4-2) 4) Turn(Move) the Tracking Control(in PB Mode) clockwise and counterclockwise.(Fig. C-4-3) 5) Check that any drop of RF Output is uniform at the start and end of the waveform. 	Waveform Diagrams  <p>Fig. C-4-2</p> <p>Fig. C-4-3</p>
---	---

NOTE If the adjustment is excessive or insufficient the tape will jam or fold.	Connection Diagram 
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DECK MECHANISM ADJUSTMENT

5. Audio/Control (A/C) Head Adjustment

Purpose: To insure that the tape passes accurately over the Audio and Control Tracks in exact alignment of the both Record and Playback Modes.

5-1. Preliminary Adjustment (Height and Tilt Adjustment)

Perform the Preliminary Adjustment, when there is no Audio Output Signal with the Alignment Tape.

Test Equipment/ Fixture	Test Conditions (Mechanism Condition)	Adjustment Point
<ul style="list-style-type: none"> Blank Tape Screw Driver(+) Type 5mm 	<ul style="list-style-type: none"> Play the blank tape 	<ul style="list-style-type: none"> Tilt Adjustment Screw(C) Height Adjustment Screw(B) Azimuth Adjustment Screw(A)

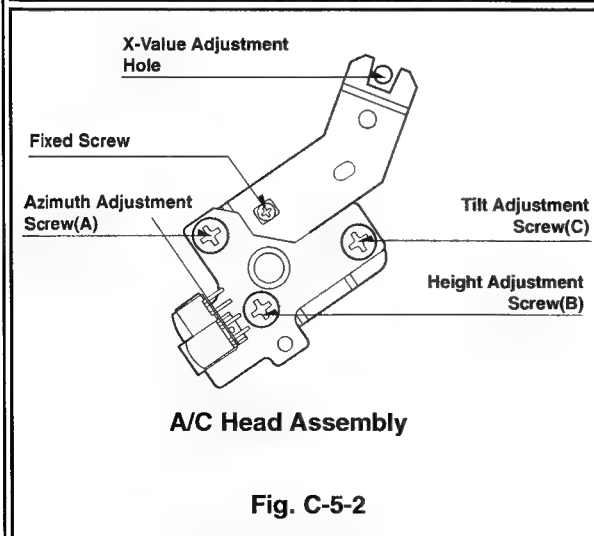
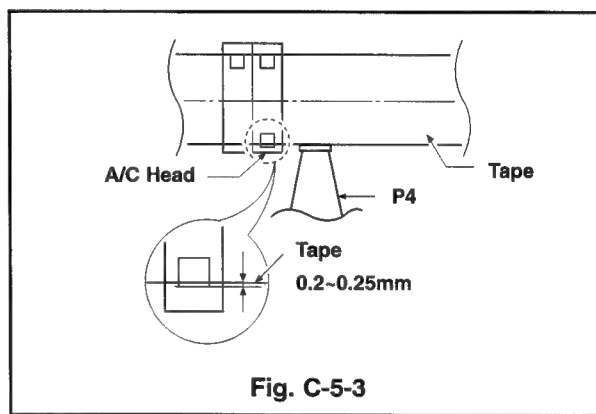
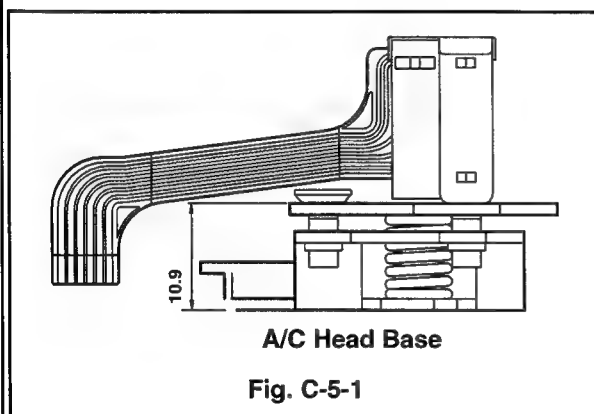
Adjustment Procedure/Diagrams

- Initially adjust the Base Assembly A/C Head as shown Fig. C-5-1 by using the Height Adjustment Screw(B).
- Play a blank tape and observe if the tape passes accurately over the A/C Head without tape curling or folding.
- If folding or curling is occurred then adjust the Tilt Adjustment Screw(C) while the tape is running to resemble Fig. C-5-3.

- Reconfirm the tape path after Playback about 4~5 seconds.

NOTE

Ideal A/C head height occurs when the tape runs between 0.2~0.25mm above the bottom edge of the A/C Head core.



DECK MECHANISM ADJUSTMENT

5-2. Confirm that the tape passes smoothly between the Take-up Guide and Pinch Roller(using a mirror or the naked eye).

1) After completing Step 5-1.(Preliminary Adjustment), check that the tape passes around the Take-up Guide and Pinch Roller without folding or curling at the top or bottom.

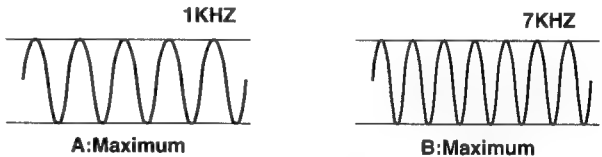

(1) If folding or curling is observed at the bottom of the Take-up Guide then slowly turn the Tilt Adjustment Screw(C) in the clockwise direction.

(2) If folding or curling is observed at the top of it then slowly turn the Tilt Adjustment Screw(C) in the counterclockwise direction.

NOTE:

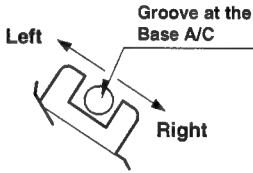
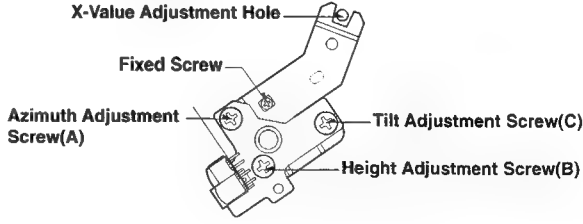
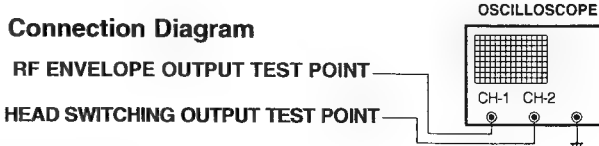
Check the RF envelope after adjusting the A/C Head, if the RF waveform differs from Fig. C-5-4, performs Precise Adjustment to flat the RF waveform.

5-3. Precise Adjustment (Azimuth adjustment)

Test Equipment/ Fixture	Connection Point	Test Conditions (Mechanism Condition)	Adjustment Point
<ul style="list-style-type: none"> Oscilloscope Alignment Tape(SP) Screw Driver(+) Type 5mm 	<ul style="list-style-type: none"> Audio output jack 	<ul style="list-style-type: none"> Play an Alignment Tape 1KHz, 7KHz Sections 	<ul style="list-style-type: none"> Azimuth Adjustment Screw(A) Height Adjustment Screw(B)
Adjustment Procedure <ol style="list-style-type: none"> 1) Connect the probe of the oscilloscope to Audio Output Jack. 2) Alternately adjust the Azimuth Adjustment Screw(A) and the Tilt Adjustment Screw(C) for maximum output of the 1KHz and 7KHz segments, while maintaining the flattest envelope differential between the two frequencies. 			
			

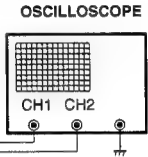
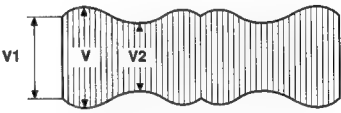
6. X-Value Adjustment

Purpose: To obtain compatibility with the other VCR(VCP) Models.

Test Equipment/ Fixture	Connection Point	Test Conditions (Mechanism Condition)	Adjustment Point
<ul style="list-style-type: none"> Oscilloscope Alignment Tape(SP only) Screw Driver(+) Type 5mm 	<ul style="list-style-type: none"> CH-1: PB RF Envelope CH-2: NTSC: SW 30Hz PAL: SW 25Hz Head Switching Output Test Point RF Envelope Output Test Point 	<ul style="list-style-type: none"> Play an Alignment Tape 	
Adjustment Procedure <ol style="list-style-type: none"> 1) Release the Automatic Tracking to run long enough for tracking to complete it's cycle. 2) Loosen the Fixed Mounting Screw and move the Base Assembly A/C Head in the direction as shown in the diagram to find the center of the peak that allows for the maximum waveform envelope. This method should allow the 31μm Head to be centrally located over the 58μm tape track. 3) Tighten the Base Assembly A/C Head mounting Screw. 		Adjustment Diagram 	
		Connection Diagram 	

DECK MECHANISM ADJUSTMENT

7. Adjustment after Replacing Drum Assembly (Video Heads)

Purpose: To correct for shift in the Roller Guide and X value after replacing the Drum.			
Test Equipment/ Fixture	Connection Point	Test Conditions (Mechanism Condition)	Adjustment Points
<ul style="list-style-type: none"> Oscilloscope Alignment Tapes Blank Tape Post Height Adjusting Driver Screw Driver(+) Type 5mm 	<ul style="list-style-type: none"> CH-1: PB RF Envelope CH-2: NTSC: SW 30Hz PAL: SW 25Hz Head Switching Output Test Point RF Envelope Output Test Point 	<ul style="list-style-type: none"> Play the Blank Tape Play an Alignment Tape 	<ul style="list-style-type: none"> Guide Roller Precise Adjustment Switching Point Tracking Preset X-Value
Checking/Adjustment Procedure Play a blank tape and check for tape curling or creasing around the Roller Guide. If there is a problem then follow the procedure 4. "Guide Roller Height" and 5. "Audio Control(A/C) Head Adjustment".		Connection Diagram  Waveform $V1/V \text{ MAX} \leq 0.7$ $V2/V \text{ MAX} \leq 0.8$ RF ENVELOPE OUTPUT  Fig. C-7	

8. Check the Tape Travel after Reassembling Deck Assembly.

8-1. Checking Audio and RF Locking Time during playback and after CUE or REV (FF/REW)

Test Equipment/ Fixture	Specification	Connection Points	Test Conditions (Mechanism Condition)
<ul style="list-style-type: none"> Oscilloscope Alignment Tapes(with 6H 3KHz Color Bar Signal) Stop Watch 	<ul style="list-style-type: none"> RF Locking Time: Less than 5 sec. Audio Locking Time: Less than 10sec 	<ul style="list-style-type: none"> CH-1: PB RF Envelope CH-2: Audio Output RF Envelope Output Point Audio Output Jack 	<ul style="list-style-type: none"> Play an Alignment Tape (with 6H 3kHz Color Bar Signal)
Checking Procedure Play an Alignment Tape then change the operating mode to CUE or REV and confirm if the unit meets the above listed specifications.		NOTES: <ol style="list-style-type: none"> 1) CUE is the forward search mode 2) REV is the backward search mode 3) Refer to the Play mode 	

8-2. Checking for tape curling or jamming

Test Equipment/ Fixture	Specification	Test Conditions (Mechanism Condition)
<ul style="list-style-type: none"> T-160 Tape T-120 Tape 	<ul style="list-style-type: none"> Be sure there is no tape jamming or curling at the beginning, middle or end of the tape. 	<ul style="list-style-type: none"> Run the CUE, REV, Play mode at the beginning and the end of the tape.
Checking Procedure <ol style="list-style-type: none"> 1) Confirm that the tape runs smoothly around the roller guides, Drum and A/C Head Assemblies while abruptly changing operating modes from Play to CUE or REV. This is to be checked at the beginning, middle and end sections of the tape. 2) Confirm that the tape passes over the A/C Head Assembly as indicated by proper audio reproduction and proper tape counter performance. 		

MAINTENANCE/INSPECTION PROCEDURE

1. Check before starting repairs

The following faults can be remedied by cleaning and oiling. Check the needed lubrication and the conditions of cleanliness in the unit.

Check with the customer to find out how often the unit is used, and then determine that the unit is ready for inspection and maintenance. Check the following parts.

Phenomenon	Inspection	Replacement	
Color beats	Dirt on Full-Erase Head	o	F/E Head
Poor S/N, no color	Dirt on Video Head	o	Video Head
Vertical or Horizontal jitter	Dirt on Video Head Dirt on tape transport system	o	
Low volume, Sound distorted	Dirt on Audio/Control Head	o	A/C Head
Tape does not run. Tape is slack	Dirt on Pinch Roller	o	Pinch Roller Belt Capston
In Review and Unloading (off mode), the tape is rolled up loosely.	Clutch Assembly D35 torque reduced	o	Clutch Assembly D35
	Cleaning Drum and transport system	Fig. C-9-3	

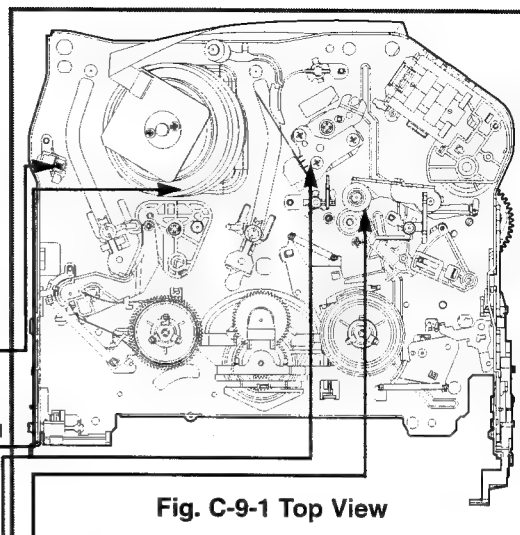


Fig. C-9-1 Top View

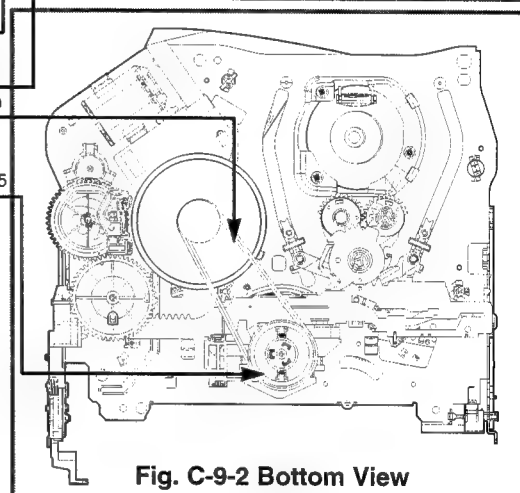


Fig. C-9-2 Bottom View

NOTE

If locations marked with o do not operate normally after cleaning, check for wear and replace.

See the EXPLODED VIEWS at the end of this manual as well as the above illustrations and see the Greasing (Page 4-21, 22) for the sections to be lubricated and greased.

* No. (1)~(12) Indicates the Tape Path to be traveled from Supply Reel to Take-up Reel.

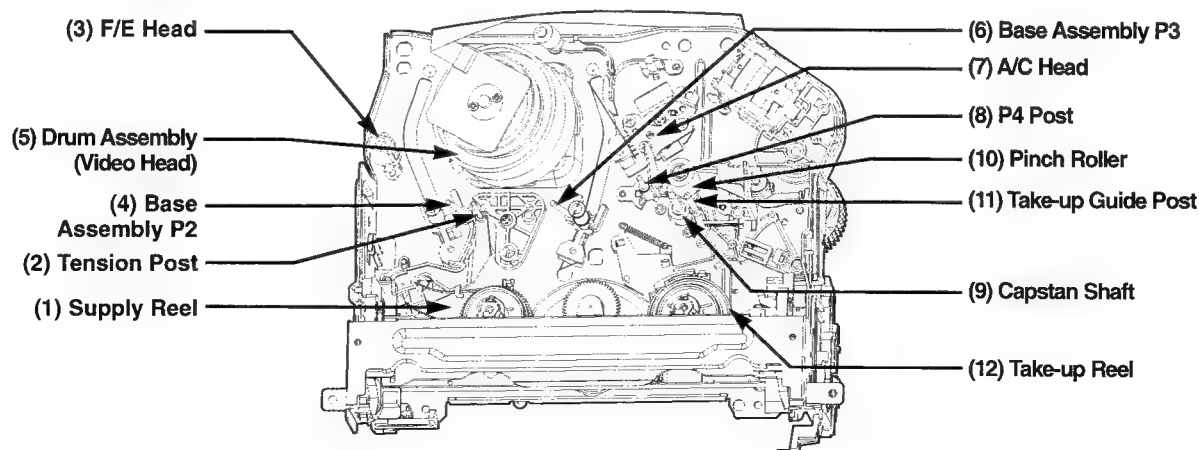


Fig. C-9-3 Tape Transport System

MAINTENANCE/INSPECTION PROCEDURE

2. Required Maintenance

The recording density of a VCR(VCP) is much higher than that of an audio tape recorder. VCR(VCP) components must be very precise, at tolerances of 1/1000mm, to ensure compatibility with the other VCRs. If any of these components are worn or dirty, the symptoms will be the same as if the part is defective. To ensure a good picture, periodic inspection and maintenance, including replacement of worn out parts and lubrication, is necessary.

3. Scheduled Maintenance

Schedules for maintenance and inspection are not fixed because they vary greatly according to the way in which the customer uses the VCR(VCP), and the environment in which the VCR(VCP) is used.

But, in general home use, a good picture will be maintained if inspection and maintenance is made every 1,000 hours. The table below shows the relation between time used and inspection period.

Table 1

When inspection is necessary Average hours used per day	About 1 year	About 18 months	About 3 years
One hour	[Diagram: A horizontal bar with a small triangle at the left end, representing a long inspection period]		
Two hours	[Diagram: A horizontal bar with a small triangle at the left end, representing a medium inspection period]		
Three hours	[Diagram: A horizontal bar with a small triangle at the left end, representing a short inspection period]		

4. Supplies Required for Inspection and Maintenance

- (1) Grease : Kanto G-311G (Blue) or equivalent
- (2) Isopropyl Alcohol or equivalent
- (3) Cleaning Patches
- (4) Grease : Kanto G-381 (Yellow)

5. Maintenance Procedure

5-1) Cleaning

(1) Cleaning video head

First use a cleaning tape. If the dirt on the head is too stubborn to remove by tape, use the cleaning patch. Coat the cleaning patch with Isopropyl Alcohol. Touch the cleaning patch to the head tip and gently turn the head(rotating cylinder) right and left.

(Do not move the cleaning patch vertically. Make sure that only the buckskin on the cleaning patch comes into contact with the head. Otherwise, the head may be damaged.)

Thoroughly dry the head. Then run the test tape. If Isopropyl Alcohol remains on the video head, the tape may be damaged when it comes into contact with the head surface.

- (2) Clean the tape transport system and drive system, etc, by wiping with a cleaning patch wetted with Isopropyl Alcohol.

NOTES:

- ① It is the tape transport system which comes into contact with the running tape. The drive system consists of those parts which moves the tape.
- ② Make sure that during cleaning you do not touch the tape transport system with excessive force that would cause deformation or damage to the system.

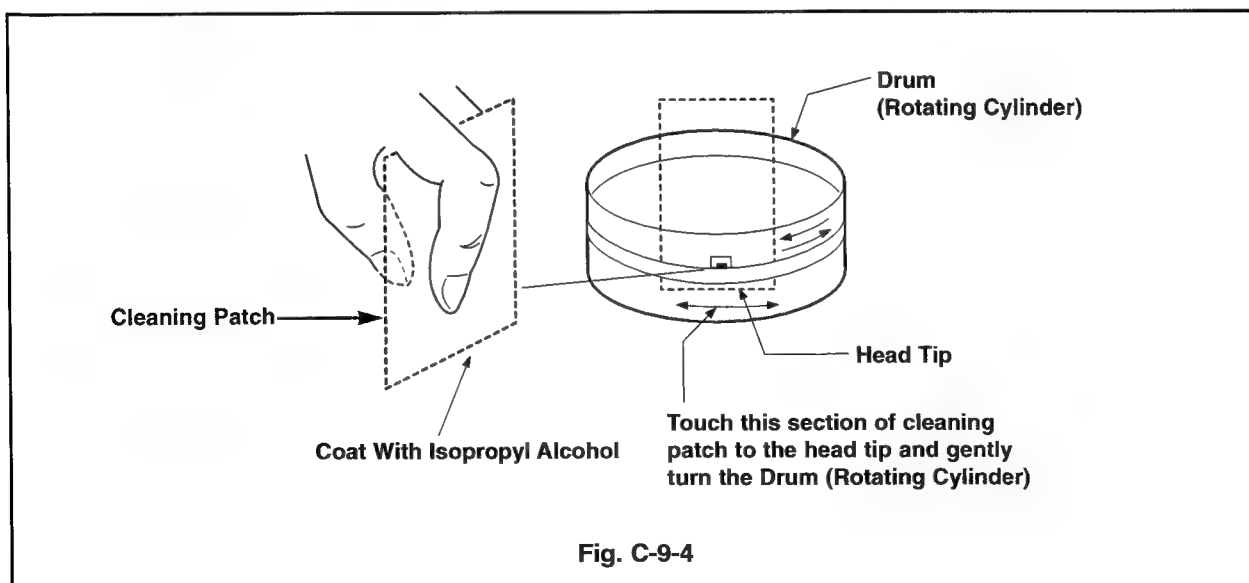


Fig. C-9-4

MAINTENANCE/INSPECTION PROCEDURE

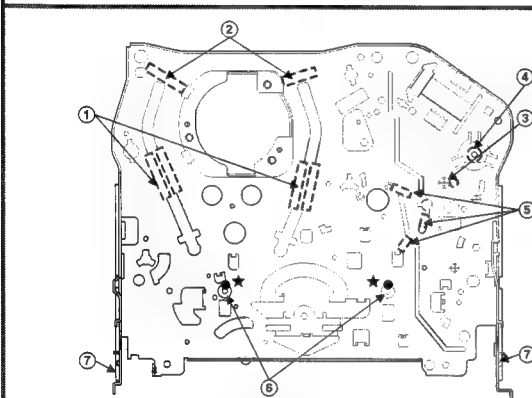
5-2) Greasing

(1) Greasing guidelines

Apply grease, with a cleaning patch. Do not use excessive grease. It may come into contact with the tape transport or drive system. Wipe excessive grease and clean with cleaning patch wetted in Isopropyl Alcohol.

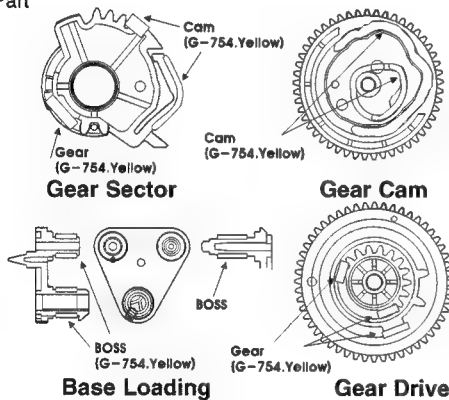
NOTE:Greasing Points

- | | |
|-----------------------------------|---------------------------------------|
| 1) Loading Path Inside & Top side | 5) Arm Take-up Rubbing Sections |
| 2) Base Assembly P2, P3 stopper | 6) Reel S,T shaft(G381:Yellow) |
| 3) Shaft | 7) Arm Assembly F/L Rotating Sections |
| 4) L/D Motor Gear Wheel Part | |



Chassis (Top)

Gear Part



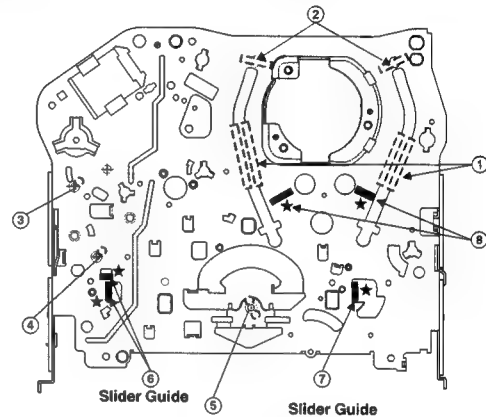
Chassis (Left Side)

Chassis (Right Side)

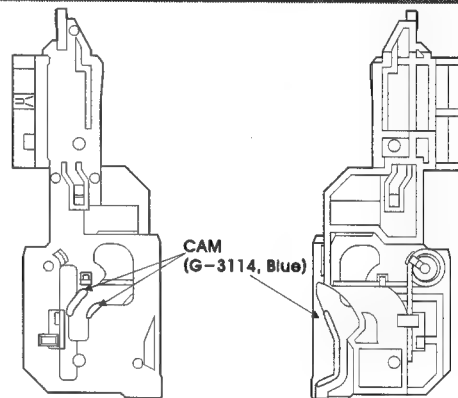
(2) Periodic greasing

Grease specified locations every 5,000 hours.

- | | |
|-----------------------------------|--|
| 1) Loading Path Inside & Top side | 6) Plate Slider Guide Sections |
| 2) Base Assembly P2,P3 stopper | 7) Plate Slider Guide Sections |
| 3) Shaft | 8) Gear Assembly P2, P2 Rubbing Sections |
| 4) Shaft | |
| 5) Clutch Assembly D35 Shaft | |



Chassis (Bottom)



Gear Rack F/L

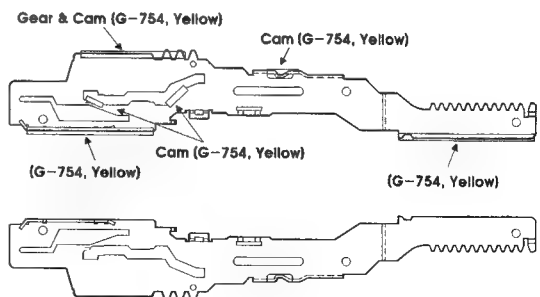
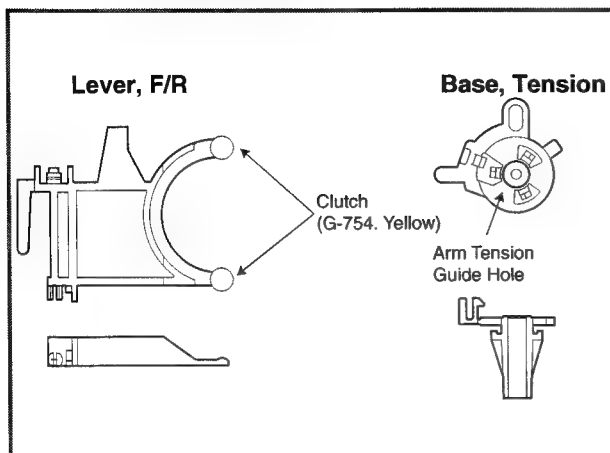


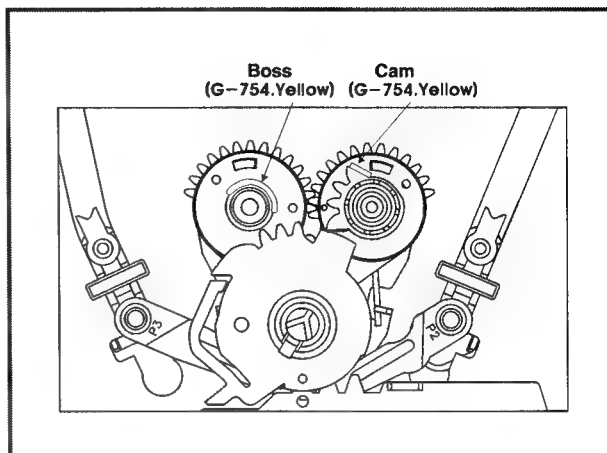
Plate Slider

MAINTENANCE/INSPECTION PROCEDURE

Lever, F/R, Base, Tension



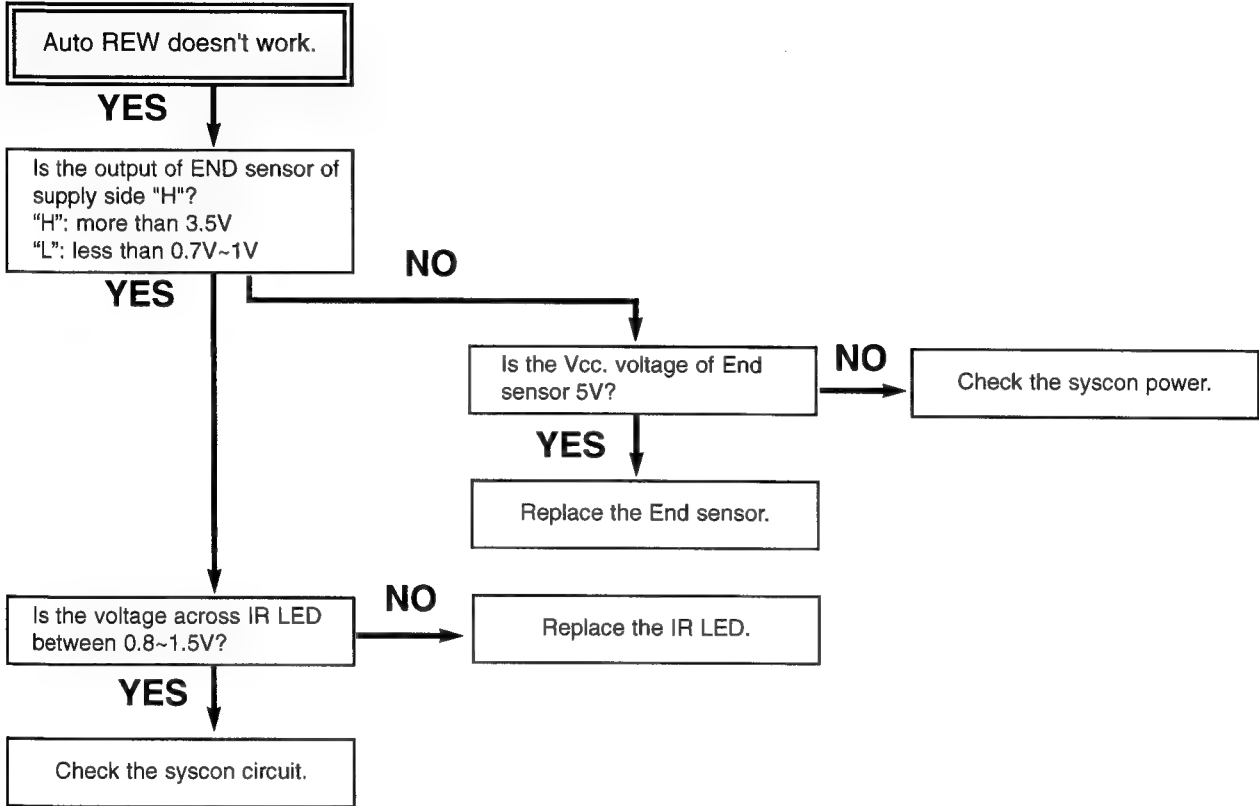
GEAR AY, P2 & P3



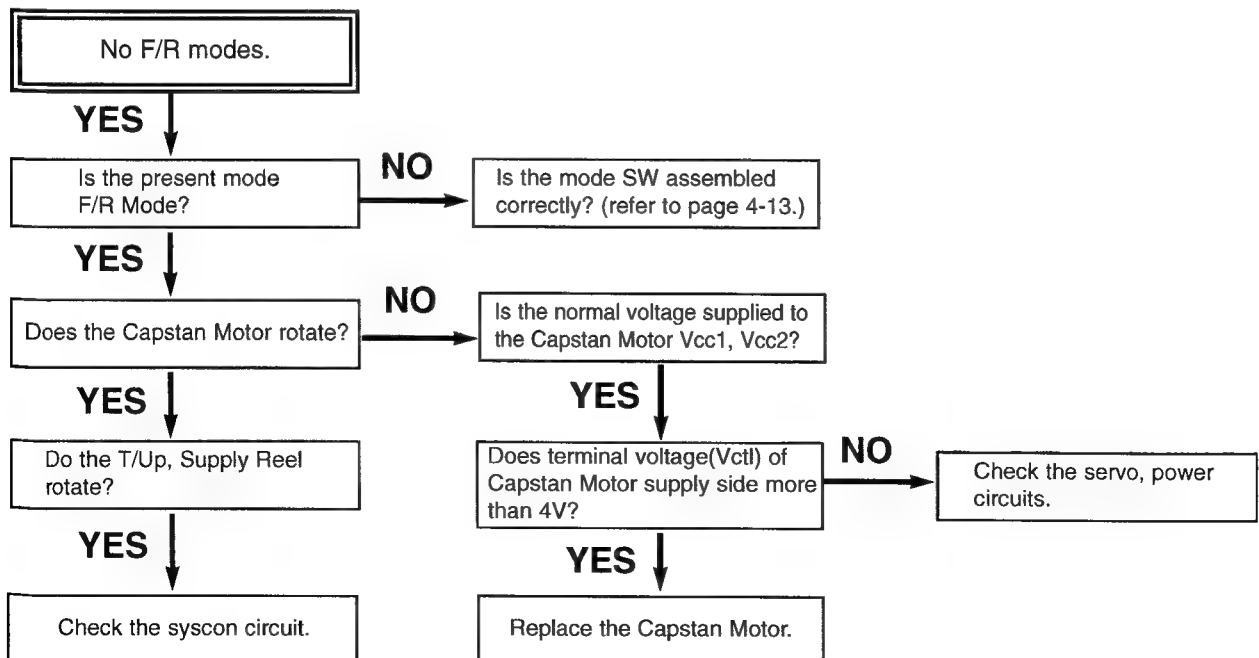
MECHANISM TROUBLESHOOTING GUIDE

1. Deck Mechanism

A.

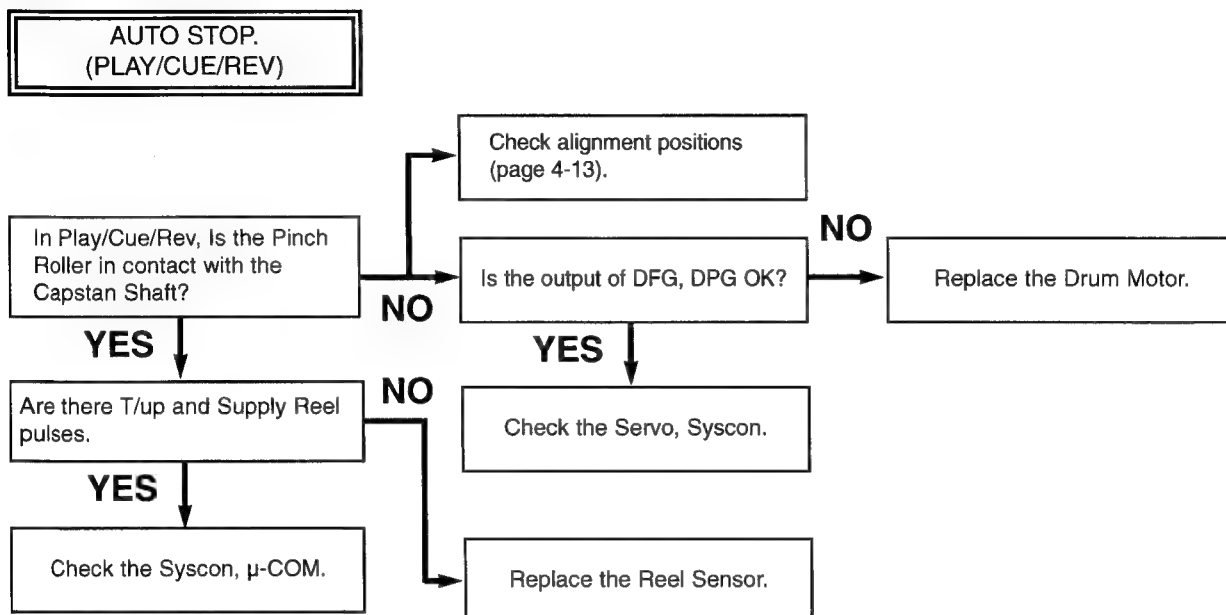


B.

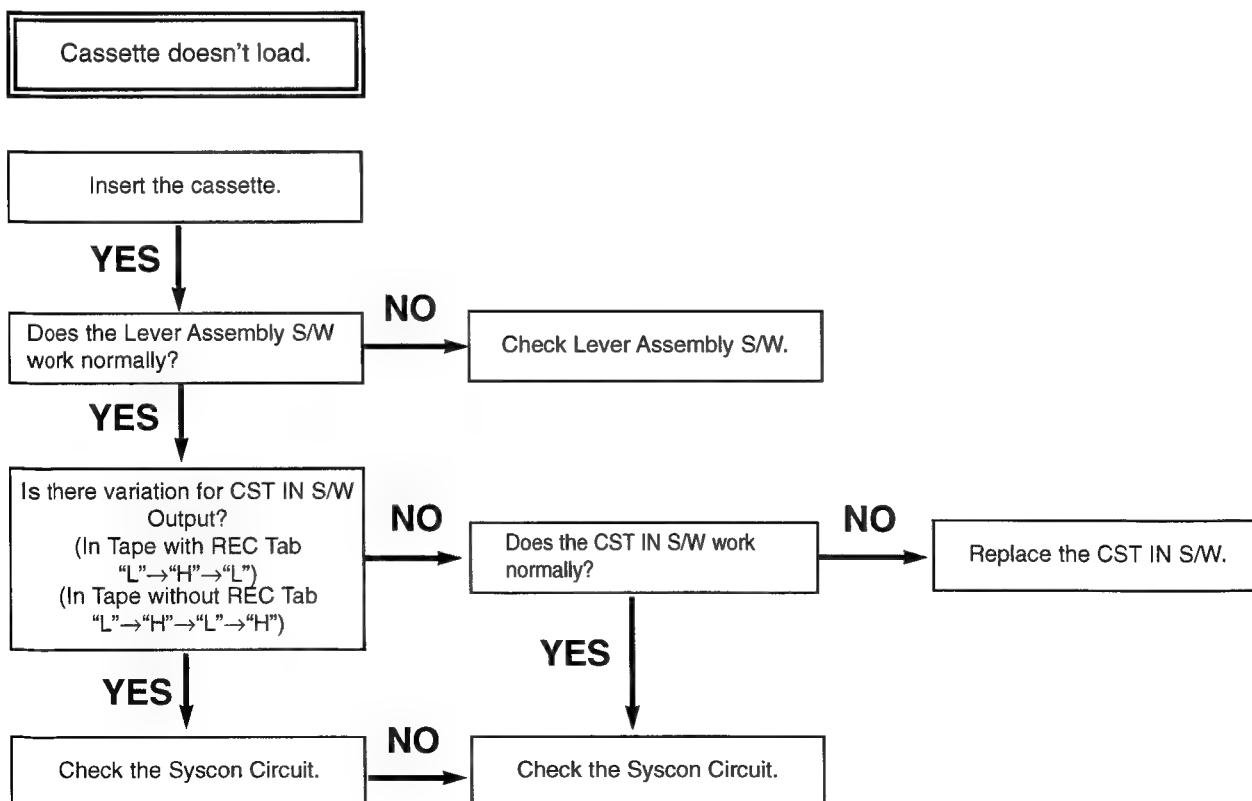


MECHANISM TROUBLESHOOTING GUIDE

C.

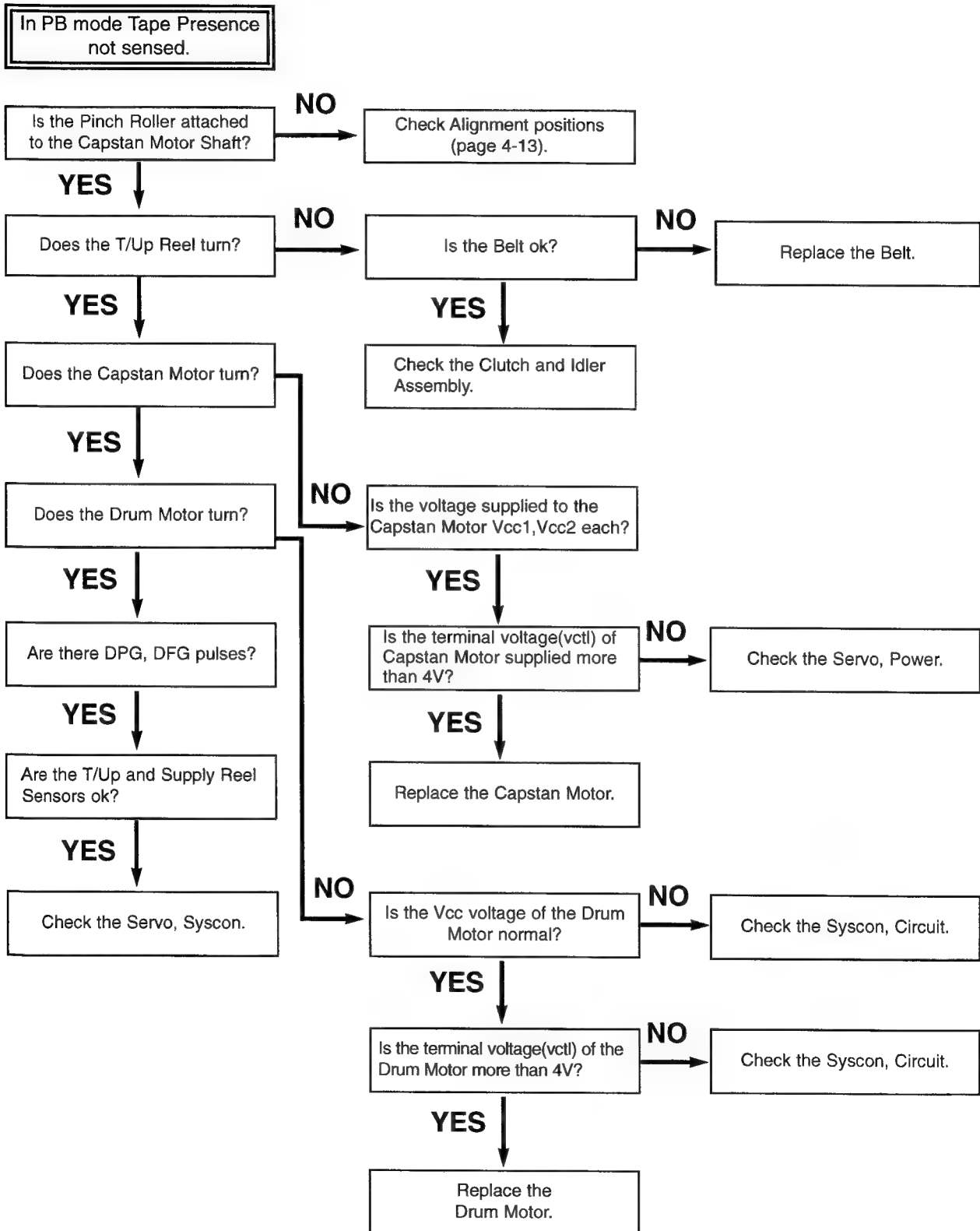


D.



MECHANISM TROUBLESHOOTING GUIDE

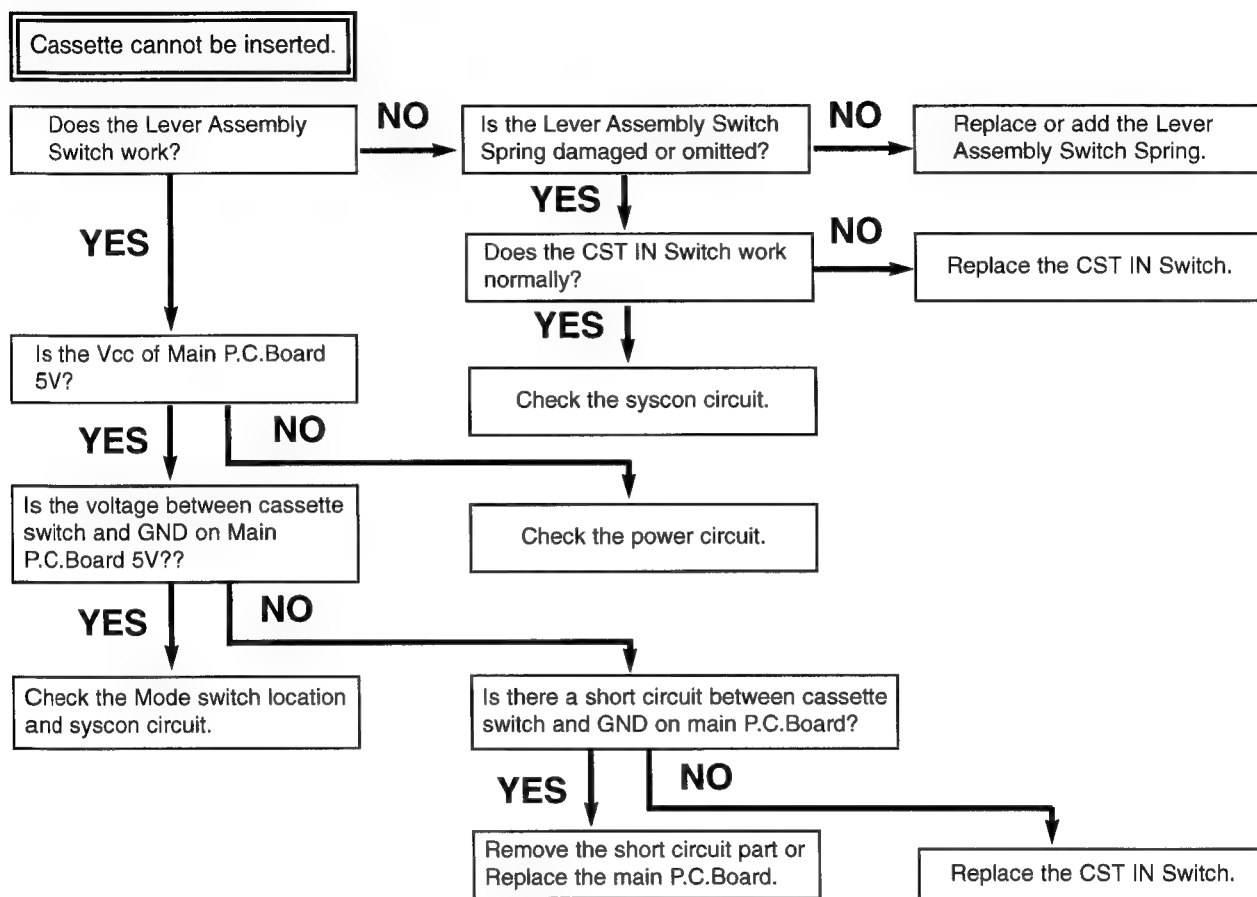
E.



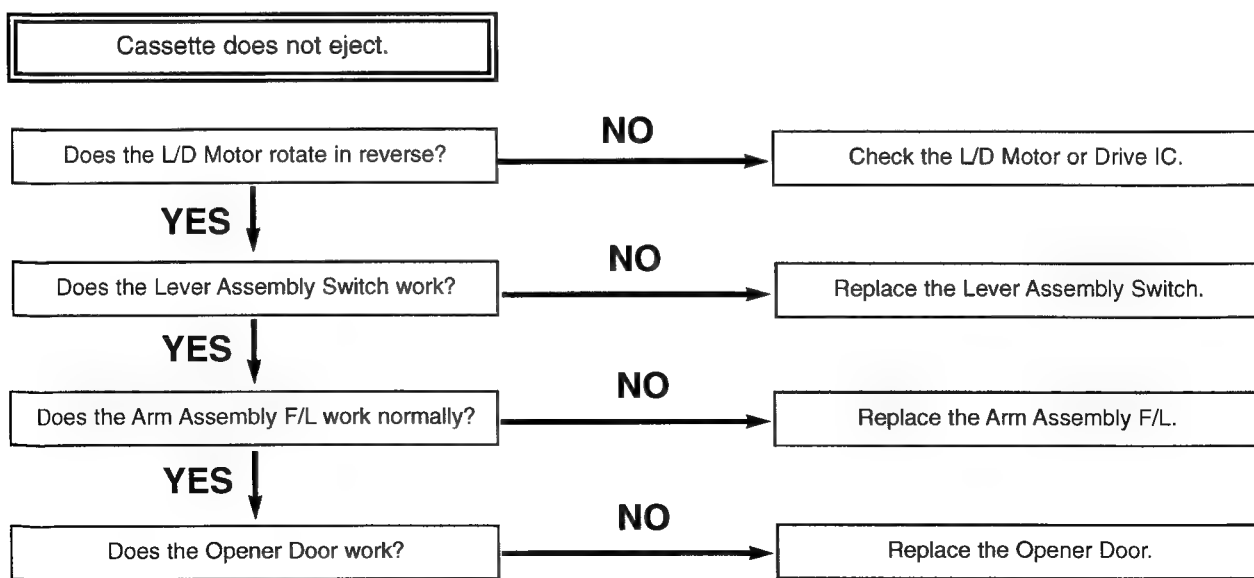
MECHANISM TROUBLESHOOTING GUIDE

2. Front Loading Mechanism

A.

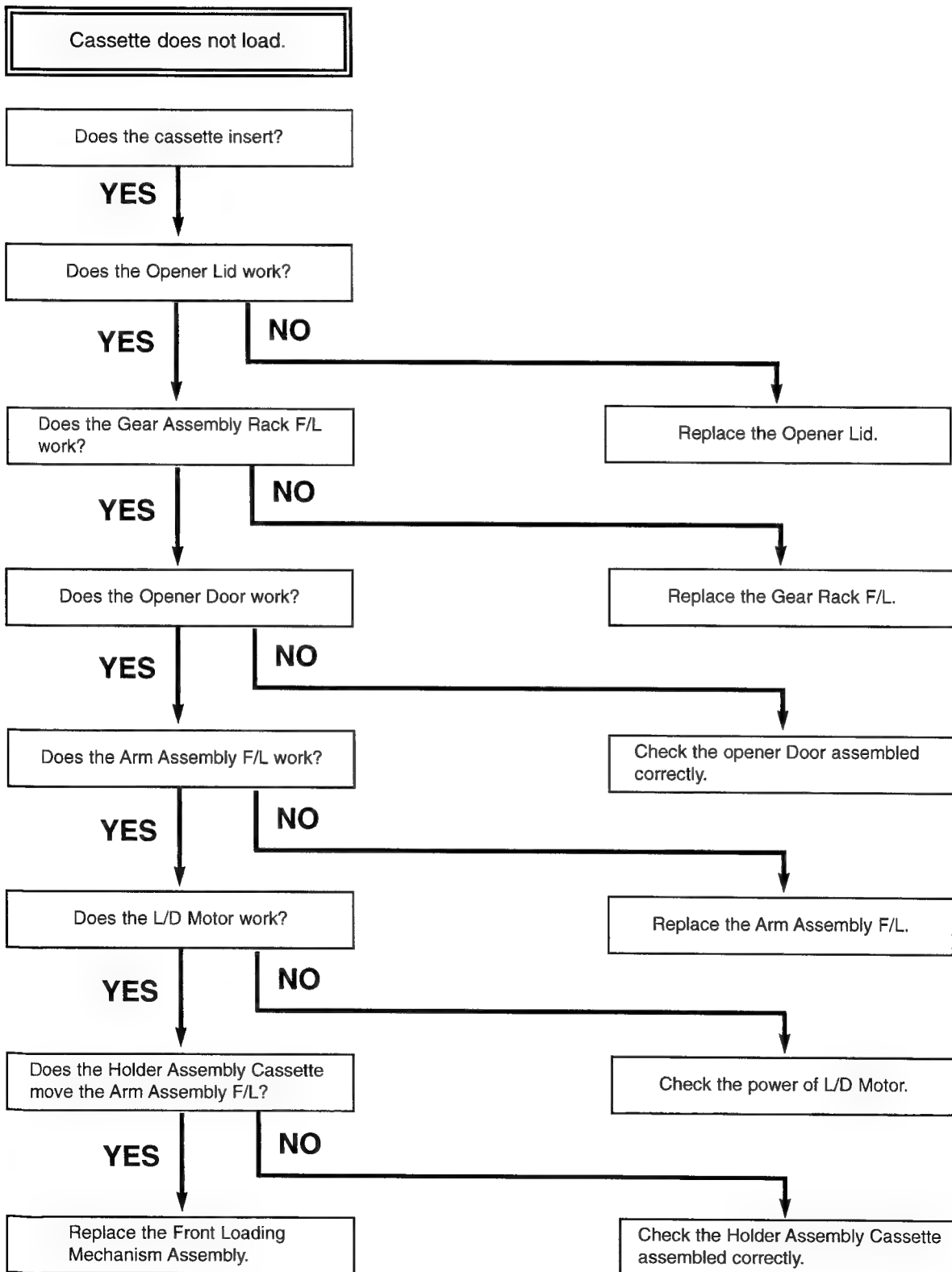


B.



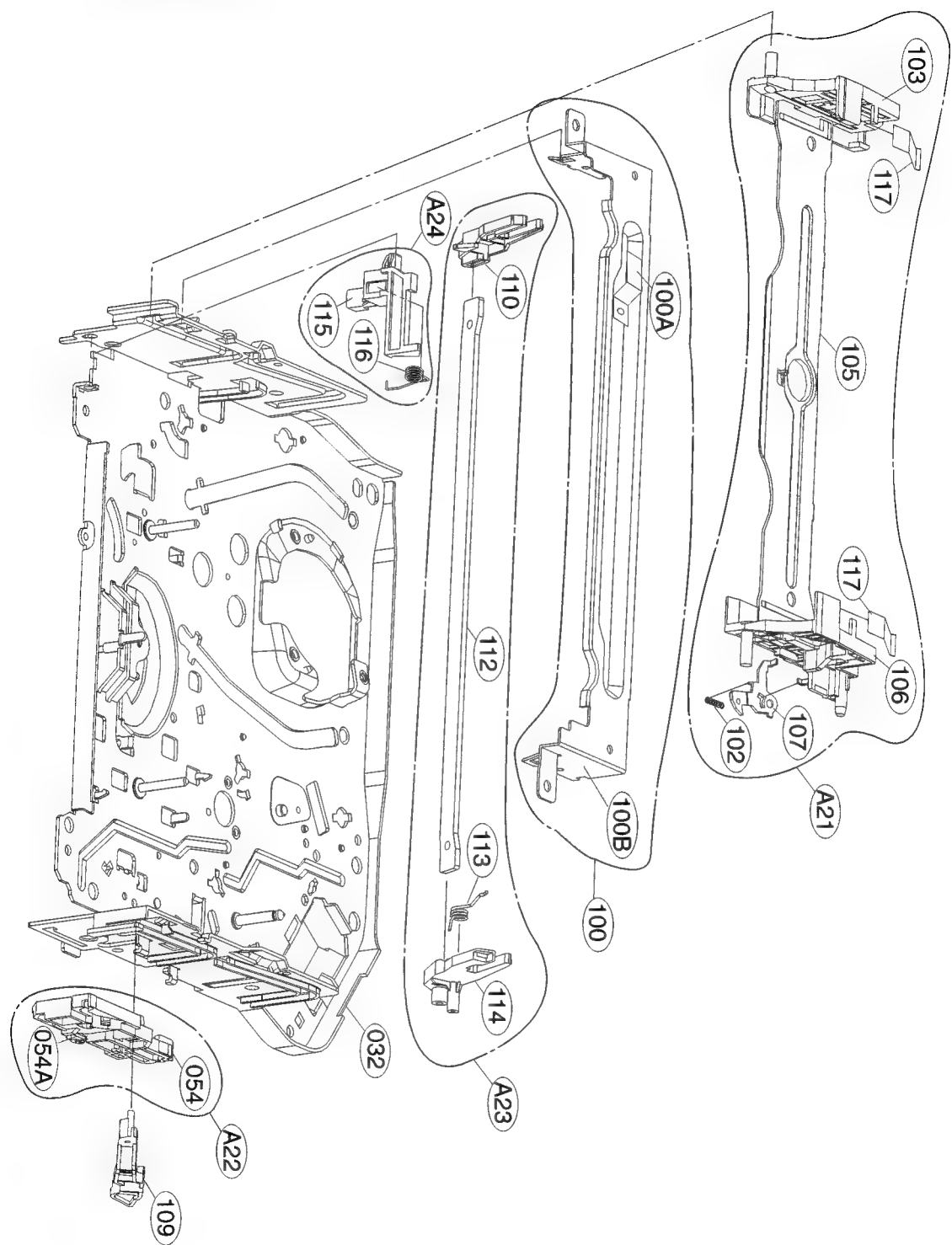
MECHANISM TROUBLESHOOTING GUIDE

C.



EXPLODED VIEWS

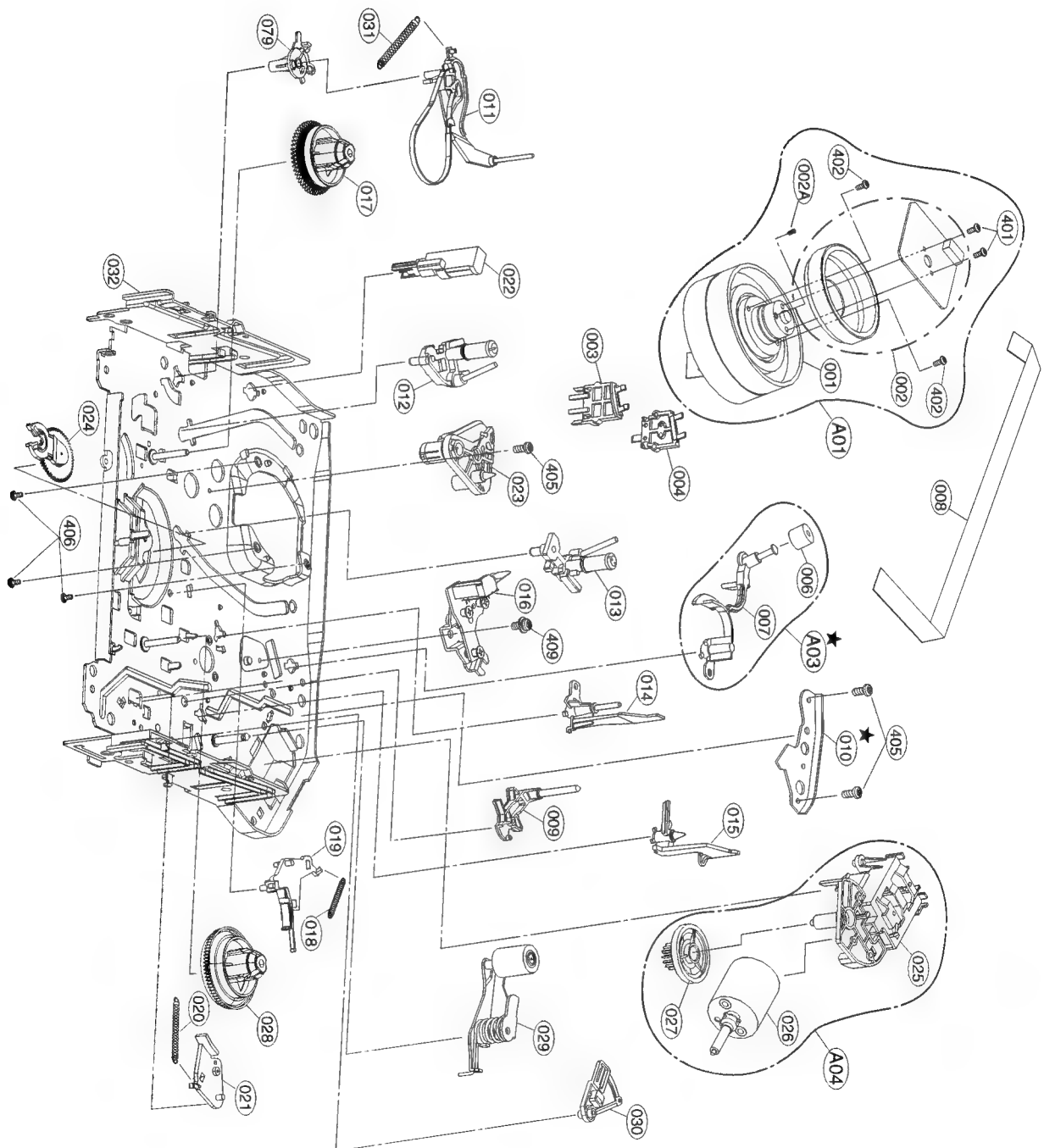
1. Front Loading Mechanism Section



EXPLODED VIEWS

2. Moving Mechanism Section(1)

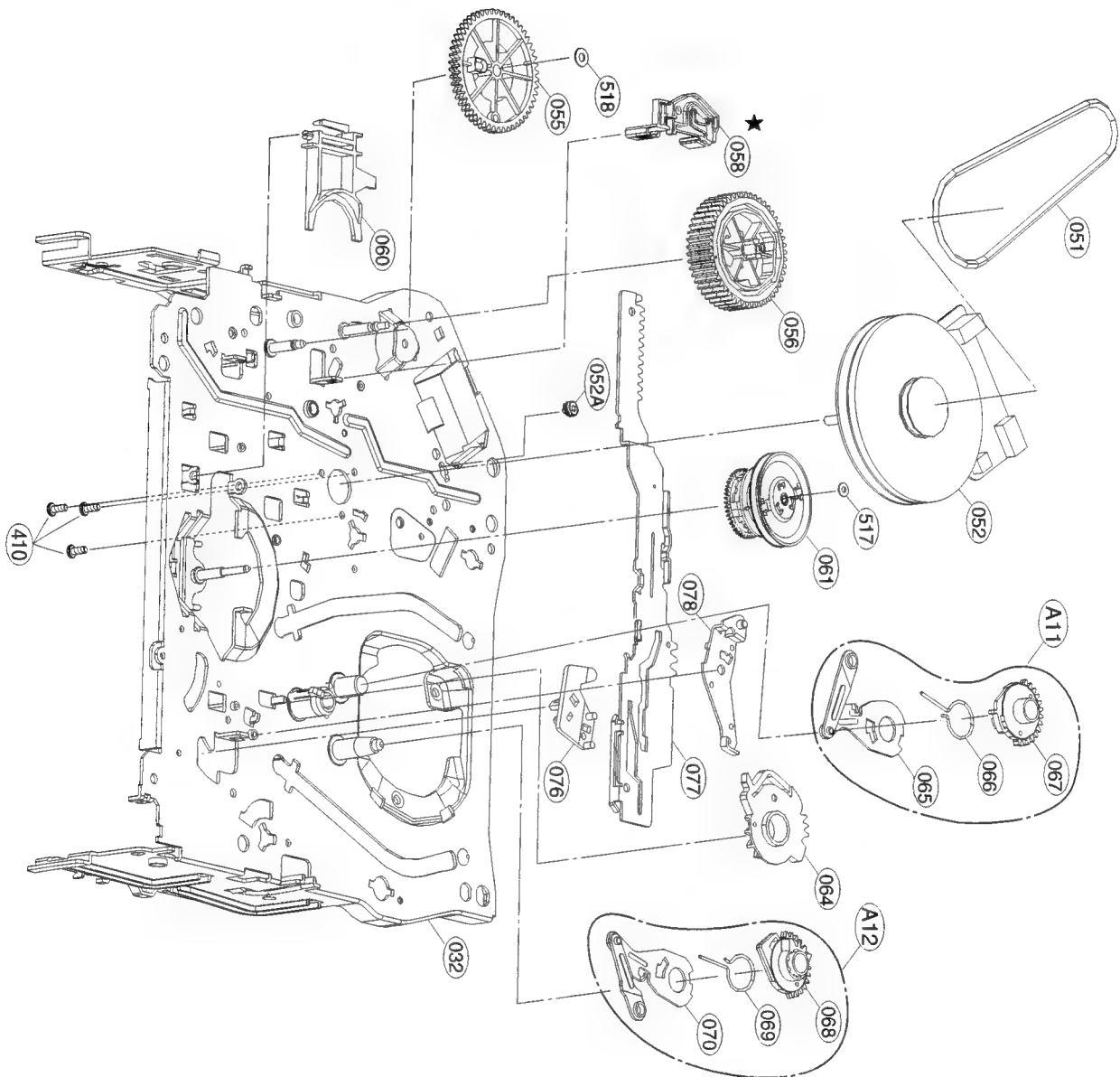
★ OPTIONAL PART



EXPLODED VIEWS

3. Moving Mechanism Section(2)

★ OPTIONAL PART



SECTION 5 MECHANISM OF DVD PART

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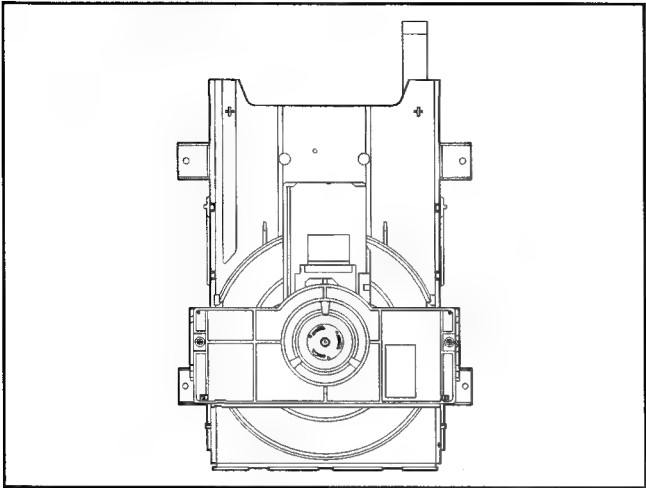
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EXPLODED VIEW

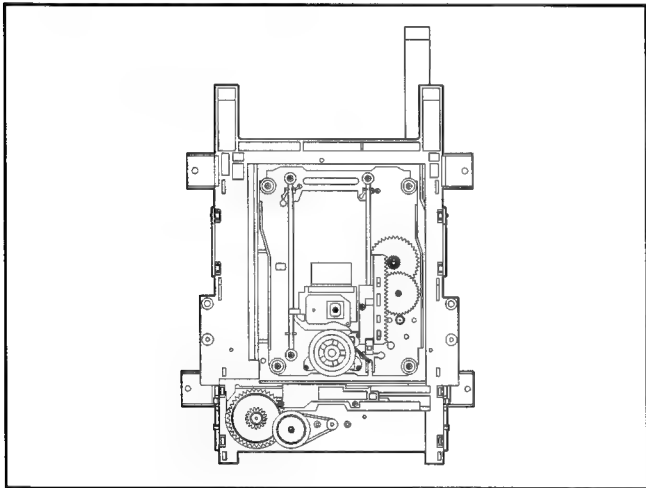
1. Deck Mechanism Exploded View....5-5

DECK MECHANISM PARTS LOCATION

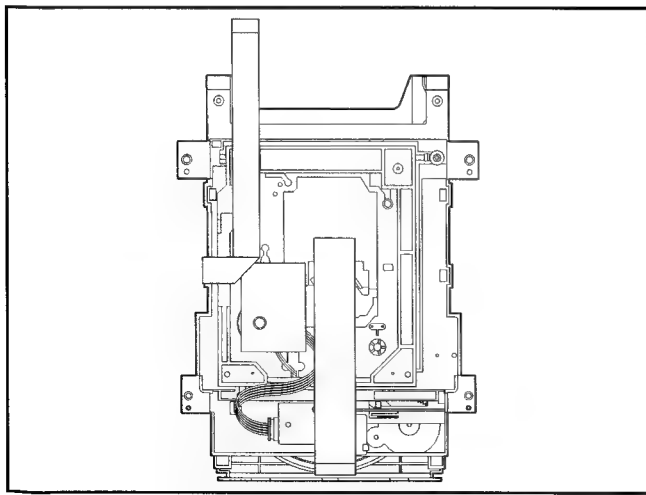
• Top View (With Tray)



• Top View (Without Tray)



• Bottom View



Procedure		Parts	Fixing Type	Disass embly	Fig- ure
Starting No.					
	1	Holder Clamp	2 Screws, 2 Locking Tabs		5-1
1	2	Clamp Assembly Disc			5-1
1, 2	3	Plate Clamp			5-1
1, 2, 3	4	Magnet Clamp			5-1
1, 2, 3, 4	5	Clamp Upper			5-1
1	6	Tray Disc			5-2
1, 6	7	Base Assembly Sled	4 Screws,		5-3
1, 2, 6	8	Gear Assembly Feed			5-3
1, 2, 6, 8	9	Gear Middle			5-3
1, 2, 6, 8, 9	10	Gear Assembly Rack	1 Screw		5-3
1, 2, 7	11	Rubber Rear			5-3
1, 2, 7	12	Frame Assembly Up/Down	1 Screw	Bottom	5-4
1, 2	13	Belt Loading	1 Locking Tab		5-4
1, 2, 13	14	Gear Pulley			5-4
1, 2, 13, 14	15	Gear Loading	1 Locking Tab		5-4
1, 2, 7, 12, 13, 14	16	Guide Up/Down			5-4
1, 2, 13	17	PWB Assembly Loading	1 Locking Tab 1 Hook 2Screw	Bottom	5-4
1, 2, 7, 12, 13, 14, 15, 16, 17	18	Base Main			5-4

Note

When reassembling, perform the procedure in reverse order.

The “Bottom” on Disassembly column of above Table indicates the part should be disassembled at the Bottom side.

DECK MECHANISM DISASSEMBLY

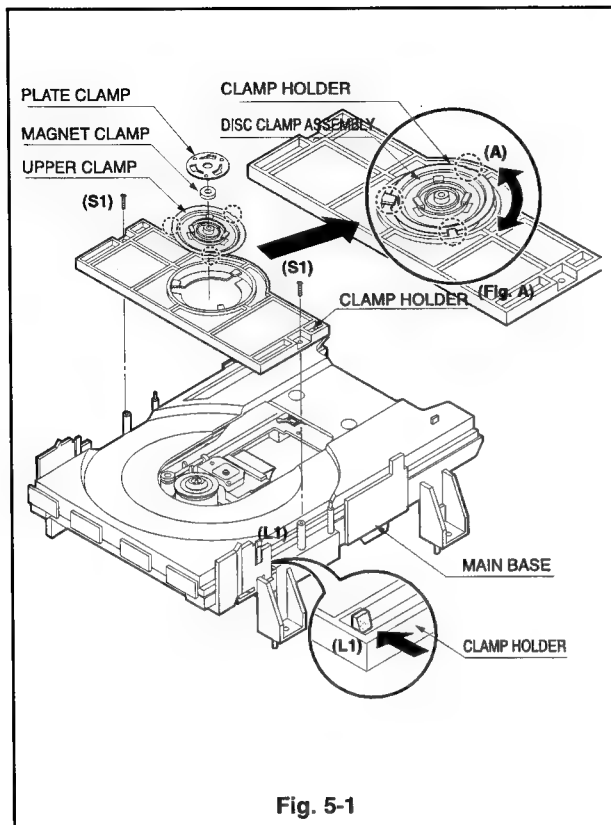


Fig. 5-1

1. Holder Clamp (Fig. 5-1)

- 1) Release 2 Screws(S1).
- 2) Unhook 2 Locking Tabs(L1).
- 3) Lift up the Holder Clamp and then separate it from the Base Main.

1-1. Clamp Assembly Disc

- 1) Place the Clamp Assembly Disc as Fig. (A)
- 2) Lift up the Clamp Assembly Disc in direction of arrow(A).
- 3) Separate the Clamp Assembly Disc from the Holder Clamp.

1-1-1. Plate Clamp

- 1) Turn the Plate Clamp to counterclockwise direction and then lift up the Plate Clamp.

1-1-2. Magnet Clamp

1-1-3. Clamp Upper

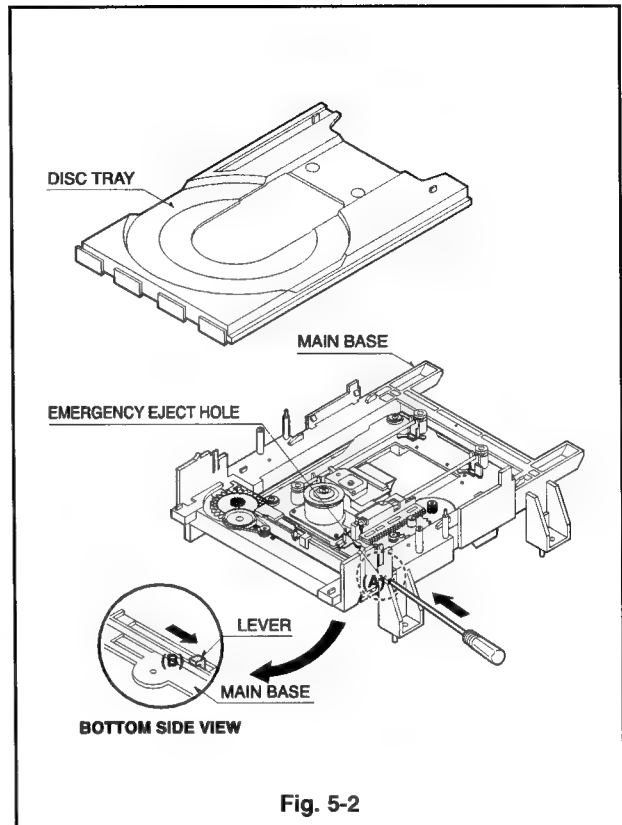


Fig. 5-2

2. Tray Disc (Fig. 5-2)

- 1) Insert and push a Driver in the emergency eject hole(A) at the right side, or put the Driver on the Lever(B) of the Gear Emergency and pull the Lever(B) in direction of arrow so that the Tray Disc is ejected about 15~20mm.
- 2) Pull the Tray Disc until it is separated from the Base Main completely.

DECK MECHANISM DISASSEMBLY

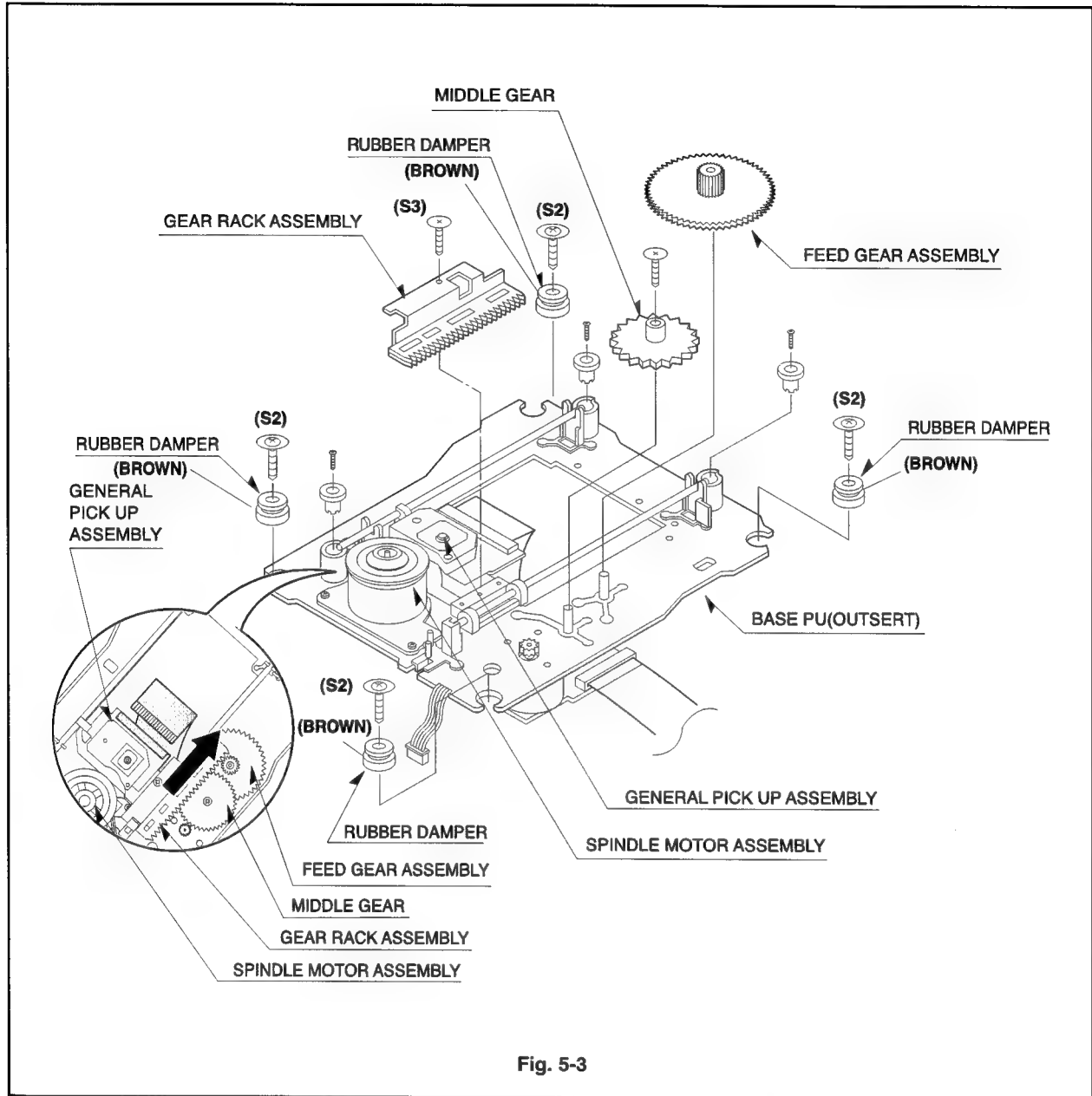


Fig. 5-3

3. Base Assembly Sled (Fig. 5-3)

- 1) Release 4 Screw(S2).
- 2) Disconnect the FFC Connector(C1)

3-1. Gear Assembly Feed

3-2. Gear Middle

3-3. Gear Assembly Rack

- 1) Release the Scerw(S3)

4. Rubber Rear (Fig. 5-3)

DECK MECHANISM DISASSEMBLY

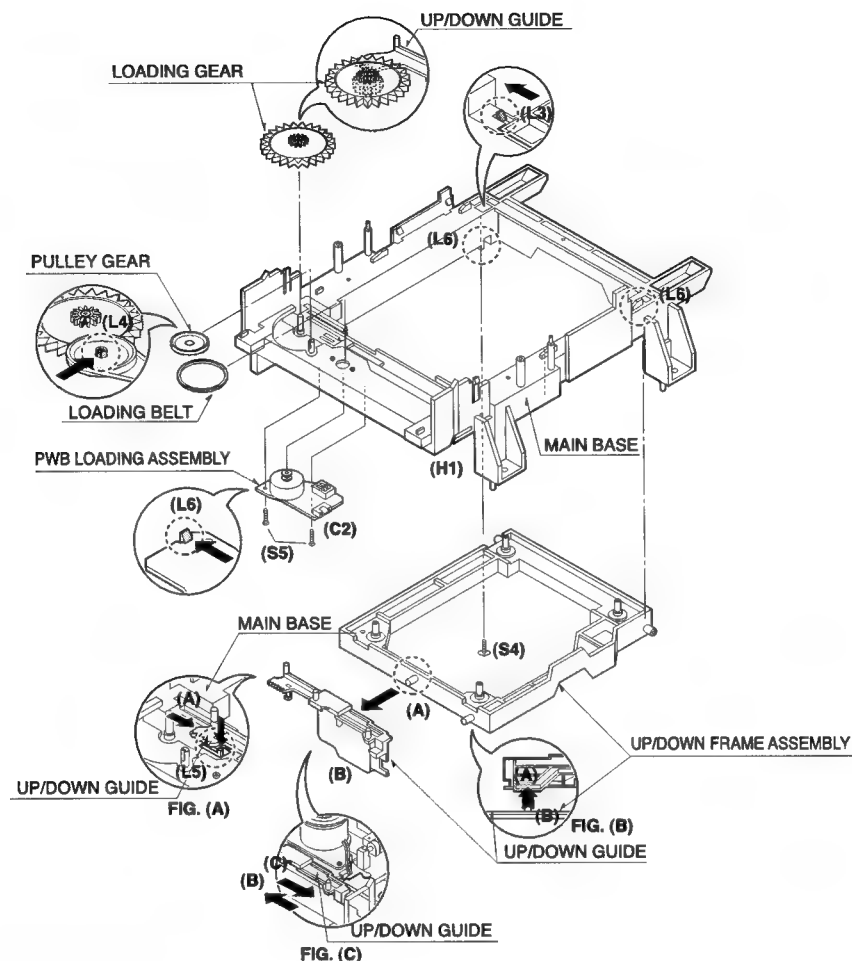


Fig. 5-4

5. Frame Assembly Up/Down (Fig. 5-4)

Note

Put the Base Main face down(Bottom Side)

- 1) Release the Screw(S4)
- 2) Unlock the Locking Tab(L3) in direction of arrow and then lift up the Frame Assembly Up/Down to separate it from the Base Main.

Note

- When reassembling move the Guide Up/Down in direction of arrow(C) until it is positioned as Fig.(C).
- When reassembling insert (A) portion of the Frame Assembly Up/Down in the (B) portion of the Guide Up/Down as Fig.(B)

6. Belt Loading(Fig. 5-4)

Note

Put the Base Main on original position(Top Side)

7. Gear pulley (Fig. 5-4)

- 1) Unlock the Locking Tab(L4) in direction of arrow(B) and then separate the Gear Pulley from the Base Main.

8. Gear Loading (Fig. 5-4)

9. Guide Up/Down (Fig. 5-4)

- 1) Move the Guide Up/Down in direction of arrow(A) as Fig.(A)
- 2) Push the Locking Tab(L5) down and then lift up the Guide Up/Down to separate it from the Base Main.

Note

When reassembling place the Guide Up/Down as Fig.(C) and move it in direction arrow(B) until it is locked by the Locking Tab(L5). And confirm the Guide Up/Down as Fig.(A)

10. PWB Assembly Loading (Fig. 5-4)

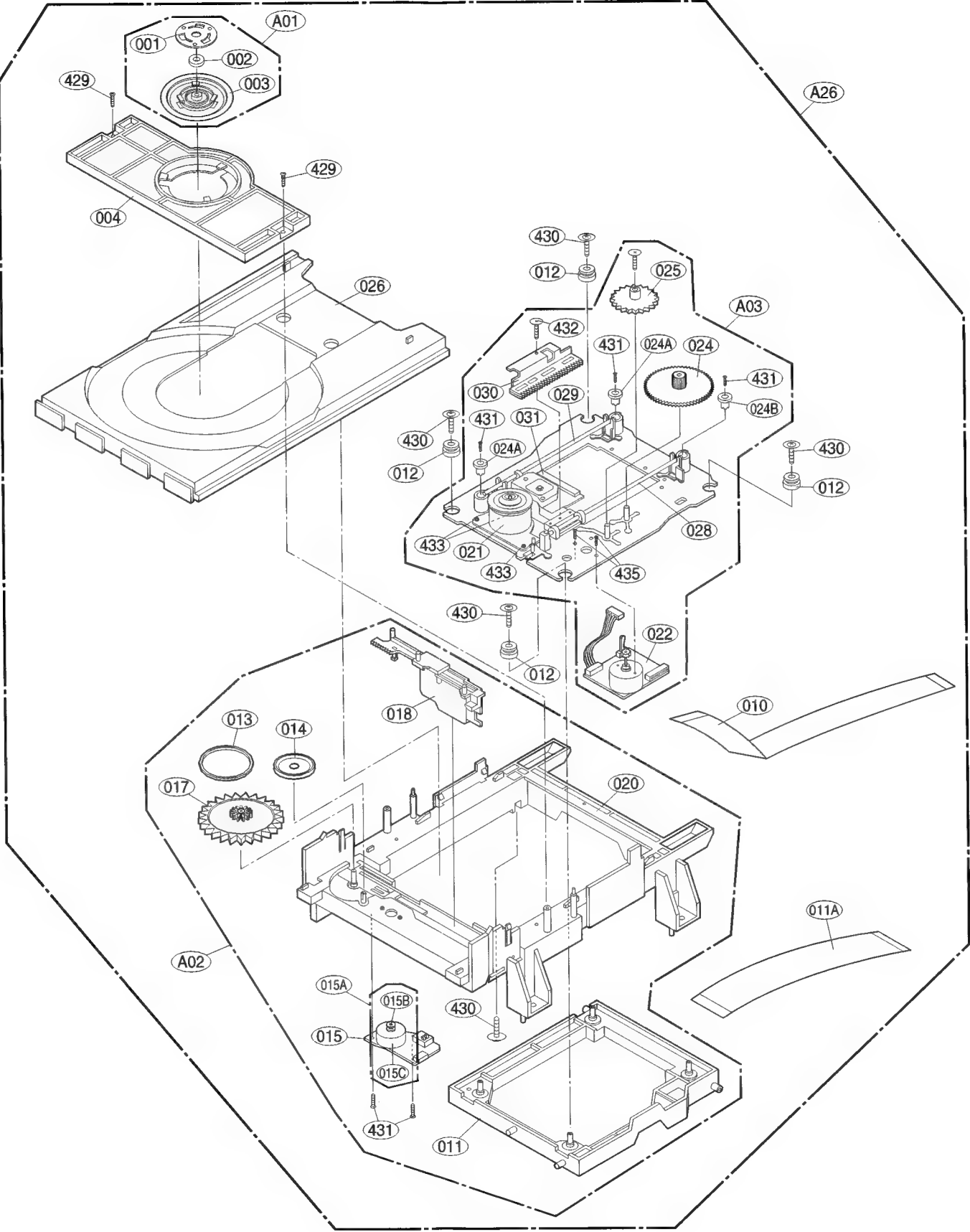
Note

Put the Base Main face down(Bottom Side)


- 1) Release 2 Screws(S5)
- 2) Unlock the Loading Motor (C2) from the Hook (H1) on the Base Main.
- 3) Unlock 2 Locking Tabs(L6) and separate the PWB Assembly Loading from the Base Main.

11. Base Main(Fig. 5-4)

EXPLODED VIEWS
1. Deck Mechanism Exploded View



NOTES) If you want to purchase
Flash memory, you must order
"IC5A1A"

NOTES)  Warning
Parts that are shaded are critical
With respect to risk of fire or
electrical shock.

SECTION 6 REPLACEMENT PARTS LIST

MODEL : V780NSK(DVS7800) NA3FLL LGEFS

NSP : Not available as service parts.

RUN DATE :22-JULY-03

S	AL	LOCA. NO.	LG PART NO.	DESCRIPTION	SPECIFICATION	REMARKS
*** INDIVIDUAL PARTS ***						
		250	3110R-V006A	CASE	SLIM-COMBI A288G SCREW 5EA P	
		260	3210R-V003B	FRAME	SLIM COMBI MOLD 60HR BK	NSP
		276	4930R-0383A	HOLDER	FULL-TIMER	
		300	6410RCHP02B	POWER CORD	HIT-102/H0VHH2-F(WITH CORE) HI	
		330	3140R-V003B	CHASSIS	V782CSK PRESS SCART	
		457	353-051E	SCREW	SPECIAL (3X12)	
		462	353-051G	SCREW,DRAWING	+ 2 D3.0 L8.0 MSWR3/FN TB ROUN	
*** PACKING ACCESSORY ***						
		801	3835RP0106A	INSTRUCTION ASSEMBLY	VCR V780NSK.NA3FLL	
		802	3890R-H822V	BOX	V780NSK NA3FLL DW2 1.118 4 FLX	
		803	3920R-E081A	PACKING,CASING	LC-930 0.02 120 EPS 8 792 1624	
		804	292-053B	BAG	SOFT(MIDI)	NSP
		806	6850R-CAA26	CABLE,COAXIAL	1200M/M PAL-PAL DOUBLE SHIELD	
		808	534-008C	BATTERY,MANGANESE	AAAM(R03) SEOTONG 1.5 V - 1PA	
		810	6851R-0009B	CABLE ASSEMBLY	COMBI ACC WITH BOX (FOR I AND	
		821	6850R-SUA2A	CABLE,COAXIAL	1200M/M SCART-SCART DOUBLE SHI	
*** REMOTE CONTROLLER ***						
		900	6711R1P065C	REMOTE CONTROLLER ASSEMBLY	N6 VC680NS NA3FLL LG W/O SHOWV	
*** PANEL ASSEMBLY , FRONT ***						
		A43	3721R-F351L	PANEL ASSEMBLY,FRONT	VCR V780NSK NA3FLL	
		280	3720R-F724K	PANEL,FRONT	VCR V780NSK NA3FLL MOLD 8D174	NSP
		283	3580R-V065F	DOOR,CASE	VCR V780NSK NA3FLL MOLD 8D174	
		284	442-681A	SPRING	DOOR	
*** DECK ASSEMBLY , VIDEO (DVD MD) ***						
		A26	6721RF0379A	DECK ASSEMBLY,VIDEO	DECK/MECHA DP-7C SLIM (DI)	NSP
		A01	4861R-0016C	CLAMP ASSEMBLY	DECK/MECHA DISC DP-7 (DI)	
		A02	3041R-M013C	BASE ASSEMBLY	MAIN DP-7C (DI)	
		A03	3041R-M016C	BASE ASSEMBLY	SLED DP-7C(DI)	
		001	3300R-0547A	PLATE	CLAMP	NSP
		002	5016H-1016B	MAGNET	CLAMP(LDM-R608,10*5,1*1.5T)	NSP
		003	4860R-0021A	CLAMP	UPPER DP7	NSP
		004	4930R-0171A	HOLDER	CLAMP	
		010	6850R-GK22Z	CABLE,FLAT	P=1.0 FFC UL2896(0.05X0.65) 11	
		011	3210R-M002A	FRAME	UP/DOWN MOLD DP7C	
		011A	6850R-JW14E	CABLE,FLAT	P=1.0 FFC UL2896(0.035X0.7) 23	
		012	5040R-0075B	RUBBER	DAMPER DP7 (CHUNG PUNG 30)	
		012	5040R-0075D	RUBBER	DAMPER DP7 (YAMAUCHI 30)	
		013	4400R-0006B	BELT	DECK/MECHA DP2-5, DP7C,DP7A OT	
		014	4470R-0055A	GEAR	PULLEY	
		015	6871RZ5130A	PWB(PCB) ASSEMBLY,OTHERS	SUB,L/D (DP-4V,DVD+VCR) DI	
		015A	4681R-1023E	MOTOR ASSEMBLY	LOADING (DI)	
		015B	4560R-0008A	PULLEY	MOTOR	

S	AL	LOCA. NO.	LG PART NO.	DESCRIPTION	SPECIFICATION	REMARKS
		015C	4680HP2001A	MOTOR(MECH)	RF-300CH-11440(SHAFT 6.05L)M/C	
		015C	4680R-E009A	MOTOR(MECH)	FEEDING RF300EH-1D390 MABUCHI	
		015C	4680R-E010A	MOTOR(MECH)	FEEDING BCZ3B51 SANKYO FOR DP7	
		015C	4680HP2011A	MOTOR(MECH)	PC200DG-21651C JOHNSON LOADING	
		015C	4680R-D003A	MOTOR(MECH)	LOADING RF-300EH-1D390 MABUCHI	
		017	4470R-0056A	GEAR	LOADING	
		018	4974R-0023A	GUIDE	UP/DOWN	
		020	3040R-M001A	BASE	MAIN MOLD	NSP
		021	4680R-C011A	MOTOR(MECH)	SPINDLE JCL9B68 SANKYO FOR COM	
		022	4681R-0034C	MOTOR ASSEMBLY	DECK/MECHA FEED DP-7C(DI)	
		024	4470R-0131A	GEAR	PINION DP7C	
		024A	5006R-0044A	CAP	SKEW-T DP7C	
		024B	5006R-0043A	CAP	SKEW DP7C	
		025	4470R-0130A	GEAR	MIDDLE DP7C	
		026	3390R-0017A	TRAY	DVD DISC(DP-7C-SLIM) MOLD	
		028	4370R-0082B	SHAFT	DECK/MECHA PU R DP-7C OTHER	
		029	4370R-0082A	SHAFT	PU DP-7C	
		030	4471R-0013C	GEAR ASSEMBLY	DECK/MECHA RACK DP-7C(7A) DI	
		031	6716DPH005A	PICK UP,DVD	PVR-502W MITSUMI PLAYER H/HIGH	
		429	1SZZR-0012A	SCREW,	B-TITE	
		430	1SZZH-1003A	SCREW,	+ D2.0 6MM SWRCH16A/NIY 4.5MM	
		430	1SZZH-1003A	SCREW,	+ D2.0 6MM SWRCH16A/NIY 4.5MM	
		431	1SZZH-1007B	SCREW,DRAWING	+ D2.0 6MM SWRCH16A/ZNBK 4MM 1	
		431	1SZZH-1007B	SCREW,DRAWING	+ D2.0 6MM SWRCH16A/ZNBK 4MM 1	
		433	1SZZR-0050A	SCREW,DRAWING	+ 1 D2.0 L4.5 SWRCH16A/ZNY S-T	
		435	1SZZR-0011A	SCREW,	MACHINE	
*** SUB PWB(PCB) ASSEMBLY(DVD) ***						
		A46A	6885R-8013L	SUB PWB(PCB) ASSEMBLY	465202D7160570 000000 00003000	
		C201	0CH1104K942	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C202	0CH1104K942	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C203	0CH1104K942	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C206	0CE1074F638	CAPACITOR,ELECTROLYTIC	100U SRA 16V M FM5 TP(5)	
		C207	0CE4764F638	CAPACITOR,ELECTROLYTIC	47M SRA/SS 16V M FM5 TP(5)	
		C208	0CE4764F638	CAPACITOR,ELECTROLYTIC	47M SRA/SS 16V M FM5 TP(5)	
		C211	0CH1104K942	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C212	0CH1104K942	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C213	0CH1104K942	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C214	0CH1104K942	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C231	0CH1104K942	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C232	0CH1104K942	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C233	0CH1104K942	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C234	0CH1104K942	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C239	0CH1104K942	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C240	0CH1153K562	CAPACITOR,FIXED CERAMIC(Temp.c	0.015UF 50V 10% X7R(X) 1608 R/	
		C241	0CE4764F638	CAPACITOR,ELECTROLYTIC	47M SRA/SS 16V M FM5 TP(5)	
		C243	0CH4561K412	CAPACITOR,FIXED CERAMIC(High d	560PF 50V 5% NP0 1608 R/TP	
		C244	0CH4561K412	CAPACITOR,FIXED CERAMIC(High d	560PF 50V 5% NP0 1608 R/TP	
		C245	0CH1104K942	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C251	0CH1104K942	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C252	0CH1104K942	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C253	0CH1104K942	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C254	0CH1104K942	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C255	0CH1104K942	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C257	0CH1105D942	CAPACITOR,CHIP[CERAMIC M/L HD	1UF 10V Z Y5V(F) 1508 R/TP	
		C258	0CH1105D942	CAPACITOR,CHIP[CERAMIC M/L HD	1UF 10V Z Y5V(F) 1508 R/TP	

S	AL	LOCA. NO.	LG PART NO.	DESCRIPTION	SPECIFICATION	REMARKS
		C259	0CH1105D942	CAPACITOR,CHIP[CERAMIC M/L HD	1UF 10V Z Y5V(F) 1508 R/TP	
		C260	0CH1105D942	CAPACITOR,CHIP[CERAMIC M/L HD	1UF 10V Z Y5V(F) 1508 R/TP	
		C261	0CH1105D942	CAPACITOR,CHIP[CERAMIC M/L HD	1UF 10V Z Y5V(F) 1508 R/TP	
		C262	0CH1104K942	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C263	0CH1104K942	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C264	0CH1153K562	CAPACITOR,FIXED CERAMIC(Temp.c	0.015UF 50V 10% X7R(X) 1608 R/	
		C265	0CH1104K942	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C266	0CH1104K942	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C267	0CH1104K942	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C268	0CH1104K942	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C269	0CH1104K942	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C270	0CH1104K942	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C271	0CH4391K412	CAPACITOR,CHIP[CERAMIC M/L TC	390PF 50V J NP0 1508 R/TP	
		C272	0CH4391K412	CAPACITOR,CHIP[CERAMIC M/L TC	390PF 50V J NP0 1508 R/TP	
		C273	0CH1333K562	CAPACITOR,CHIP[CERAMIC M/L HD	0.033UF 50V K X7R(X) 1508 R/TP	
		C274	0CH4471K412	CAPACITOR,CHIP[CERAMIC M/L TC	470PF 50V J NP0 1508 R/TP	
		C276	0CH4100K112	CHIP CAPA CERAMIC M/L T.C F/S	10P 50V D COG 1.6X0.8 R/TP	
		C277	0CH1153K562	CAPACITOR,FIXED CERAMIC(Temp.c	0.015UF 50V 10% X7R(X) 1608 R/	
		C278	0CH4270K412	CAPACITOR,CHIP[CERAMIC M/L TC	27PF 50V J NP0 1608 R/TP	
		C279	0CH1104K942	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C280	0CH1104K942	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C281	0CH1104K942	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C282	0CH1104K942	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C283	0CH1104K942	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C291	0CE1074F638	CAPACITOR,ELECTROLYTIC	100U SRA 16V M FM5 TP(5)	
		C292	0CE4764F638	CAPACITOR,ELECTROLYTIC	47M SRA/SS 16V M FM5 TP(5)	
		C293	0CE4764F638	CAPACITOR,ELECTROLYTIC	47M SRA/SS 16V M FM5 TP(5)	
		C295	0CE1064F638	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	
		C296	0CH1104K942	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C297	0CH1104K942	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C298	0CH1104K942	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C401	0CH1104K942	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C402	0CH1104K942	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C403	0CH1105D942	CAPACITOR,CHIP[CERAMIC M/L HD	1UF 10V Z Y5V(F) 1508 R/TP	
		C404	0CH1105D942	CAPACITOR,CHIP[CERAMIC M/L HD	1UF 10V Z Y5V(F) 1508 R/TP	
		C405	0CE4764F638	CAPACITOR,ELECTROLYTIC	47M SRA/SS 16V M FM5 TP(5)	
		C406	0CE1074F638	CAPACITOR,ELECTROLYTIC	100U SRA 16V M FM5 TP(5)	
		C407	0CH1104K942	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C408	0CE2264F638	CAPACITOR,ELECTROLYTIC	22M SRA 16V M FM5 TP(5)	
		C409	0CE2264F638	CAPACITOR,ELECTROLYTIC	22M SRA 16V M FM5 TP(5)	
		C410	0CE2264F638	CAPACITOR,ELECTROLYTIC	22M SRA 16V M FM5 TP(5)	
		C411	0CE2264F638	CAPACITOR,ELECTROLYTIC	22M SRA 16V M FM5 TP(5)	
		C412	0CE1074F638	CAPACITOR,ELECTROLYTIC	100U SRA 16V M FM5 TP(5)	
		C413	0CH1102K562	CAPACITOR,FIXED CERAMIC(Temp.c	1000PF 50V 10% X7R(X) 1608 R/T	
		C414	0CH1102K562	CAPACITOR,FIXED CERAMIC(Temp.c	1000PF 50V 10% X7R(X) 1608 R/T	
		C415	0CH4271K412	CAPACITOR,FIXED CERAMIC(HIGH D	270PF 50V 5% NP0 1608 R/TP	
		C416	0CH4271K412	CAPACITOR,FIXED CERAMIC(HIGH D	270PF 50V 5% NP0 1608 R/TP	
		C417	0CH4271K412	CAPACITOR,FIXED CERAMIC(HIGH D	270PF 50V 5% NP0 1608 R/TP	
		C418	0CH4271K412	CAPACITOR,FIXED CERAMIC(HIGH D	270PF 50V 5% NP0 1608 R/TP	
		C419	0CH1104K942	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C420	0CE1074F638	CAPACITOR,ELECTROLYTIC	100U SRA 16V M FM5 TP(5)	
		C421	0CH1392K562	CAPACITOR,FIXED CERAMIC(Temp.c	3900PF 50V K Z5U(E) 1608 R/TP	
		C422	0CH1392K562	CAPACITOR,FIXED CERAMIC(Temp.c	3900PF 50V K Z5U(E) 1608 R/TP	
		C423	0CE2264F638	CAPACITOR,ELECTROLYTIC	22M SRA 16V M FM5 TP(5)	
		C424	0CE2264F638	CAPACITOR,ELECTROLYTIC	22M SRA 16V M FM5 TP(5)	

S	AL	LOCA. NO.	LG PART NO.	DESCRIPTION	SPECIFICATION	REMARKS
		C425	0CH1104K942	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C426	0CE2274C638	CAPACITOR,ELECTROLYTIC	220M SRA 6.3V M FM5 TP(5)	
		C502	0CH1103K562	CAPACITOR,FIXED CERAMIC(Temp.c	0.01UF 50V 10% X7R(X) 1608 R/T	
		C503	0CH1103K562	CAPACITOR,FIXED CERAMIC(Temp.c	0.01UF 50V 10% X7R(X) 1608 R/T	
		C504	0CH1103K562	CAPACITOR,FIXED CERAMIC(Temp.c	0.01UF 50V 10% X7R(X) 1608 R/T	
		C505	0CH1103K562	CAPACITOR,FIXED CERAMIC(Temp.c	0.01UF 50V 10% X7R(X) 1608 R/T	
		C506	0CH4101K412	CHIP CAPA CERAMIC M/L T.C F/S	100P 50V J COG 1.6X0.8 R/TP	
		C507	0CH1103K562	CAPACITOR,FIXED CERAMIC(Temp.c	0.01UF 50V 10% X7R(X) 1608 R/T	
		C508	0CH1225F944	CAPACITOR,FIXED CERAMIC(Temp.c	2.2UF 16V 80%,-20% Y5V(F) 3216	
		C509	0CH1104K942	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C510	0CH4101K412	CHIP CAPA CERAMIC M/L T.C F/S	100P 50V J COG 1.6X0.8 R/TP	
		C511	0CE4764F638	CAPACITOR,ELECTROLYTIC	47M SRA/SS 16V M FM5 TP(5)	
		C513	0CH1104K942	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C514	0CH1104K942	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C515	0CH1104K942	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C516	0CH1225F944	CAPACITOR,FIXED CERAMIC(Temp.c	2.2UF 16V 80%,-20% Y5V(F) 3216	
		C517	0CH1104K942	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C518	0CH1104K942	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C519	0CH1104K942	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C520	0CH1104K942	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C521	0CH1104K942	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C522	0CH1104K942	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C523	0CH1104K942	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C524	0CH1104K942	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C525	0CH1104K942	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C526	0CH1104K942	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C527	0CH1104K942	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C528	0CE4764F638	CAPACITOR,ELECTROLYTIC	47M SRA/SS 16V M FM5 TP(5)	
		C530	0CH1104K942	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C531	0CH1104K942	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C532	0CH1104K942	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C533	0CH4180K412	CAPACITOR,CHIP[CERAMIC M/L TC	18P 50V J COG 1.6X0.8 R/TP	
		C534	0CH4330K412	CAPACITOR,CHIP[CERAMIC M/L TC	33P 50V J COG 1.6X0.8 R/TP	
		C535	0CH1104K942	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C536	0CH1102K562	CAPACITOR,FIXED CERAMIC(Temp.c	1000PF 50V 10% X7R(X) 1608 R/T	
		C537	0CH1102K562	CAPACITOR,FIXED CERAMIC(Temp.c	1000PF 50V 10% X7R(X) 1608 R/T	
		C538	0CH1102K562	CAPACITOR,FIXED CERAMIC(Temp.c	1000PF 50V 10% X7R(X) 1608 R/T	
		C539	0CH1104K942	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C540	0CH1104K942	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C541	0CE1064F638	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	
		C542	0CH1104K942	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C543	0CE1064F638	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	
		C544	0CH1104K942	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C545	0CE1064F638	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	
		C554	0CH1104K942	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C555	0CE1064F638	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	
		C556	0CH1104K942	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C557	0CH1104K942	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C558	0CH1104K942	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C559	0CH1104K942	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C560	0CH1104K942	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C561	0CH1104K942	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C563	0CE2274C638	CAPACITOR,ELECTROLYTIC	220M SRA 6.3V M FM5 TP(5)	
		C564	0CE2274C638	CAPACITOR,ELECTROLYTIC	220M SRA 6.3V M FM5 TP(5)	
		C567	0CH4221K412	CAPACITOR,CHIP[CERAMIC M/L TC	220P 50V J COG 1.6X0.8 R/TP	

S	AL	LOCA. NO.	LG PART NO.	DESCRIPTION	SPECIFICATION	REMARKS
		C568	0CH4221K412	CAPACITOR,CHIP[CERAMIC M/L TC	220P 50V J COG 1.6X0.8 R/TP	
		C569	0CH4221K412	CAPACITOR,CHIP[CERAMIC M/L TC	220P 50V J COG 1.6X0.8 R/TP	
		C575	0CH1104K942	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C576	0CH1104K942	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C577	0CH1104K942	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C578	0CH1104K942	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C579	0CH1104K942	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C580	0CH1104K942	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C581	0CH1104K942	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C582	0CH1104K942	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C583	0CE2274C638	CAPACITOR,ELECTROLYTIC	220M SRA 6.3V M FM5 TP(5)	
		C584	0CH42270K412	CAPACITOR,CHIP[CERAMIC M/L TC	27PF 50V J NP0 1608 R/TP	
		C585	0CH1104K942	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C586	0CH4101K412	CHIP CAPA CERAMIC M/L T.C F/S	100P 50V J COG 1.6X0.8 R/TP	
		C587	0CH4101K412	CHIP CAPA CERAMIC M/L T.C F/S	100P 50V J COG 1.6X0.8 R/TP	
		C589	0CH1104K942	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C590	0CE2274C638	CAPACITOR,ELECTROLYTIC	220M SRA 6.3V M FM5 TP(5)	
		C591	0CH1104K942	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C592	0CH1104K942	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C597	0CH4470K412	CAPA,CHIP CERAMIC M/L T.C F/S	47P 50V J COG 1.6X0.8 R/TP	
		C5A1	0CE1064F638	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	
		C5A2	0CH1104K942	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C5C1	0CE4764F638	CAPACITOR,ELECTROLYTIC	47M SRA/SS 16V M FM5 TP(5)	
		C5C2	0CE1054K638	CAPACITOR,ELECTROLYTIC	1.0M SRA/SS50V M FM5 TP(5)	
		C5C4	0CE1054K638	CAPACITOR,ELECTROLYTIC	1.0M SRA/SS50V M FM5 TP(5)	
		C5C5	0CE1054K638	CAPACITOR,ELECTROLYTIC	1.0M SRA/SS50V M FM5 TP(5)	
		C5C6	0CE1054K638	CAPACITOR,ELECTROLYTIC	1.0M SRA/SS50V M FM5 TP(5)	
		C5C7	0CE1054K638	CAPACITOR,ELECTROLYTIC	1.0M SRA/SS50V M FM5 TP(5)	
		C5C8	0CH1104K942	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C5C9	0CE2264F638	CAPACITOR,ELECTROLYTIC	22M SRA 16V M FM5 TP(5)	
		C5E0	0CH1104K942	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C601	0CH1104K942	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C602	0CH1104K942	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C603	0CH1104K942	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C604	0CH1104K942	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C605	0CH1104K942	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C606	0CH1104K942	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		D401	0DSRM00118A	DIODE,SWITCHING	DAP202K T146 ROHM R/TP SMD 80V	
		D601	0DR104009BA	DIODE,RECTIFIER	RL104F TP RECTRON NON 400V 1A	
		F501	6200JB8010V	FILTER(CIRC),EMC	LFA20-2A1E473MT MITSUBISHI MAT	
		IC201	0ILNRNF006A	IC,LINEAR	MT1336E MEDIATEK INCORPORATION	
		IC202	0IPRPSA010A	IC,PERIPHERALS	LA6560-A-TE-L SANYO HSOP-36R R	
		IC401	0IPRPCI003B	IC,PERIPHERALS	CS4391-KZR CIRRUS LOGIC 20 TSS	
		IC402	0JRA458000B	IC,JRC	NJM4580M 8,DMP8 TP OP AMP 2K/R	
		IC501	0ILNRNF007A	IC,LINEAR	MT1379DE MEDIATEK INCORPORATIO	
		IC502	0IEB121616B	IC,ELITE MEMORY TECHNOLOGY	M12L16161A-7T-L 50PIN TSOP TRA	
		IC502	0IMMRB006A	IC,MEMORIES	M12L16161A-7T-TI ELITE MEMORY	
		IC503	0IEB121616B	IC,ELITE MEMORY TECHNOLOGY	M12L16161A-7T-L 50PIN TSOP TRA	
		IC503	0IMMRB006A	IC,MEMORIES	M12L16161A-7T-TI ELITE MEMORY	
		IC505	0ISS240210A	IC,SAMSUNG ELECTRONICS	S524A40X21-SCT0 SOP8 TP EEPROM	
		IC510	0IFA742440F	IC,FAIRCHILD	MM74HCT244SJ 20P SOIC TP 3-STA	
		IC5A1	0IMMRBA001A	IC,MEMORIES	A29L800TV-70 AMIC TECHNOLOGY 4	
		IC5A1	0IMMRFU010A	IC,MEMORIES	MBM29LV800TA-70PFTN FUJITSU 48	
		IC5A1A	6957R-451AS	PROGRAM	MTK COMBI DVD PROG.(LG FRANCE)	
		IC5C1	0IPRPMT008A	IC,PERIPHERALS	MM1623XFB E MITSUMI 28PIN SOP R	

S	AL	LOCA. NO.	LG PART NO.	DESCRIPTION	SPECIFICATION	REMARKS
		L201	0LR0102J025	INDUCTOR,RADIAL LEAD	10UH 5% 4X5 TR5	
		L202	6200HJC102A	FILTER(CIRC),EMC	HB-1M2012-102JT CERATECH TP	
		L203	0LR0102J025	INDUCTOR,RADIAL LEAD	10UH 5% 4X5 TR5	
		L204	6200HJC102A	FILTER(CIRC),EMC	HB-1M2012-102JT CERATECH TP	
		L231	6200HJC102A	FILTER(CIRC),EMC	HB-1M2012-102JT CERATECH TP	
		L251	6200HJC102A	FILTER(CIRC),EMC	HB-1M2012-102JT CERATECH TP	
		L261	6200HJC102A	FILTER(CIRC),EMC	HB-1M2012-102JT CERATECH TP	
		L262	6200HJC102A	FILTER(CIRC),EMC	HB-1M2012-102JT CERATECH TP	
		L264	6200HJC102A	FILTER(CIRC),EMC	HB-1M2012-102JT CERATECH TP	
		L265	6200HJC102A	FILTER(CIRC),EMC	HB-1M2012-102JT CERATECH TP	
		L401	6200HJC102A	FILTER(CIRC),EMC	HB-1M2012-102JT CERATECH TP	
		L402	6200HJC102A	FILTER(CIRC),EMC	HB-1M2012-102JT CERATECH TP	
		L403	6200HJC102A	FILTER(CIRC),EMC	HB-1M2012-102JT CERATECH TP	
		L501	6200HJC102A	FILTER(CIRC),EMC	HB-1M2012-102JT CERATECH TP	
		L502	6200HJC102A	FILTER(CIRC),EMC	HB-1M2012-102JT CERATECH TP	
		L503	6200HJC102A	FILTER(CIRC),EMC	HB-1M2012-102JT CERATECH TP	
		L504	6200HJC102A	FILTER(CIRC),EMC	HB-1M2012-102JT CERATECH TP	
		L505	6200HJC102A	FILTER(CIRC),EMC	HB-1M2012-102JT CERATECH TP	
		L506	6200HJC102A	FILTER(CIRC),EMC	HB-1M2012-102JT CERATECH TP	
		L507	6200HJC102A	FILTER(CIRC),EMC	HB-1M2012-102JT CERATECH TP	
		L508	6200HJC102A	FILTER(CIRC),EMC	HB-1M2012-102JT CERATECH TP	
		L5C1	6200HJC102A	FILTER(CIRC),EMC	HB-1M2012-102JT CERATECH TP	
		L601	6200HJC102A	FILTER(CIRC),EMC	HB-1M2012-102JT CERATECH TP	
		L602	6200HJC102A	FILTER(CIRC),EMC	HB-1M2012-102JT CERATECH TP	
		L613	6200HJC102A	FILTER(CIRC),EMC	HB-1M2012-102JT CERATECH TP	
		Q201	0TR387509AC	TRANSISTOR	CHIP KTC3875S-GR-T1(ALG) KEC	
		Q202	0TRRH80042A	TRANSISTOR,BIPOLARS	2SK3018 T106 ROHM KOREA R/TP U	
		Q203	0TRRH80042A	TRANSISTOR,BIPOLARS	2SK3018 T106 ROHM KOREA R/TP U	
		Q204	0TR103709BB	TRANSISTOR,BIPOLARS	2SA1037K-Q CHIP TP ROHM --	
		Q205	0TR103709BB	TRANSISTOR,BIPOLARS	2SA1037K-Q CHIP TP ROHM --	
		Q401	0TR103709BB	TRANSISTOR,BIPOLARS	2SA1037K-Q CHIP TP ROHM --	
		Q404	0TR103009AC	TRANSISTOR	KRA103S-T1(PC)22-22 CHIP KEC	
		Q405	0TR103009AC	TRANSISTOR	KRA103S-T1(PC)22-22 CHIP KEC	
		Q501	0TR387509AC	TRANSISTOR	CHIP KTC3875S-GR-T1(ALG) KEC	
		R201	0RH1002C622	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R202	0RH1003C622	RESISTOR,METAL GLAZED(CHIP)	100K OHM 1 / 16 W 1608 5.00% D	
		R203	0RH1002C622	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R204	0RH1003C622	RESISTOR,METAL GLAZED(CHIP)	100K OHM 1 / 16 W 1608 5.00% D	
		R205	0RH0272C622	RESISTOR,METAL GLAZED(CHIP)	27 OHM 1 / 16 W 1608 5.00% D	
		R206	0RH0272C622	RESISTOR,METAL GLAZED(CHIP)	27 OHM 1 / 16 W 1608 5.00% D	
		R207	0RH0000C622	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R208	0RH0000C622	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R209	0RH0000C622	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R210	0RH0000C622	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R211	0RH0221C622	RESISTOR,METAL GLAZED(CHIP)	2.2 OHM 1 / 16 W 1608 5.00% D	
		R212	0RJ7503C677	RESISTOR,METAL GLAZED(CHIP)	750K OHM 1/16 W 5% 1608 R/TP	
		R213	0RH3903C622	RESISTOR,METAL GLAZED(CHIP)	390K OHM 1 / 16 W 1608 5.00% D	
		R214	0RJ7503C677	RESISTOR,METAL GLAZED(CHIP)	750K OHM 1/16 W 5% 1608 R/TP	
		R215	0RH3903C622	RESISTOR,METAL GLAZED(CHIP)	390K OHM 1 / 16 W 1608 5.00% D	
		R216	0RH0101C622	RESISTOR,METAL GLAZED(CHIP)	1 OHM 1 / 16 W 1608 5.00% D	
		R217	0RH0221C622	RESISTOR,METAL GLAZED(CHIP)	2.2 OHM 1 / 16 W 1608 5.00% D	
		R218	0RH0221C622	RESISTOR,METAL GLAZED(CHIP)	2.2 OHM 1 / 16 W 1608 5.00% D	
		R220	0RH0272C622	RESISTOR,METAL GLAZED(CHIP)	27 OHM 1 / 16 W 1608 5.00% D	
		R221	0RH0272C622	RESISTOR,METAL GLAZED(CHIP)	27 OHM 1 / 16 W 1608 5.00% D	
		R231	0RH2201C622	RESISTOR,METAL GLAZED(CHIP)	2.2K OHM 1 / 16 W 1608 5.00% D	

S	AL	LOCA. NO.	LG PART NO.	DESCRIPTION	SPECIFICATION	REMARKS
		R232	0RH2201C622	RESISTOR,METAL GLAZED(CHIP)	2.2K OHM 1 / 16 W 1608 5.00% D	
		R233	0RH0221C622	RESISTOR,METAL GLAZED(CHIP)	2.2 OHM 1 / 16 W 1608 5.00% D	
		R234	0RH0221C622	RESISTOR,METAL GLAZED(CHIP)	2.2 OHM 1 / 16 W 1608 5.00% D	
		R235	0RH1002C622	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R236	0RH1502C622	RESISTOR,METAL GLAZED(CHIP)	15K OHM 1 / 16 W 1608 5.00% D	
		R237	0RH2702C622	RESISTOR,METAL GLAZED(CHIP)	27K OHM 1 / 16 W 1608 5.00% D	
		R238	0RH1002C622	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R239	0RH1002C622	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R240	0RH1002C622	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R241	0RH1002C622	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R242	0RH2702C622	RESISTOR,METAL GLAZED(CHIP)	27K OHM 1 / 16 W 1608 5.00% D	
		R243	0RH1002C622	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R244	0RH1502C622	RESISTOR,METAL GLAZED(CHIP)	15K OHM 1 / 16 W 1608 5.00% D	
		R245	0RH1002C622	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R246	0RH1002C622	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R251	0RH3302C622	RESISTOR,METAL GLAZED(CHIP)	33K OHM 1 / 16 W 1608 5.00% D	
		R252	0RH1003C622	RESISTOR,METAL GLAZED(CHIP)	100K OHM 1 / 16 W 1608 5.00% D	
		R253	0RH2702C622	RESISTOR,METAL GLAZED(CHIP)	27K OHM 1 / 16 W 1608 5.00% D	
		R254	0RH0000C622	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R255	0RH0000C622	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R256	0RH1002C622	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R257	0RH1002C622	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R258	0RH0000C622	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R259	0RH0000C622	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R401	0RH1001C622	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R402	0RH0000C622	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R403	0RH0000C622	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R404	0RH0000C622	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R405	0RH0000C622	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R407	0RH5601C622	RESISTOR,METAL GLAZED(CHIP)	5.6K OHM 1 / 16 W 1608 5.00% D	
		R408	0RH7501C622	RESISTOR,METAL GLAZED(CHIP)	7.5K OHM 1 / 16 W 1608 5.00% D	
		R409	0RH7501C622	RESISTOR,METAL GLAZED(CHIP)	7.5K OHM 1 / 16 W 1608 5.00% D	
		R410	0RH7501C622	RESISTOR,METAL GLAZED(CHIP)	7.5K OHM 1 / 16 W 1608 5.00% D	
		R411	0RH7501C622	RESISTOR,METAL GLAZED(CHIP)	7.5K OHM 1 / 16 W 1608 5.00% D	
		R412	0RH8201C622	RESISTOR,METAL GLAZED(CHIP)	8.2K OHM 1 / 16 W 1608 5.00% D	
		R413	0RH1801C622	RESISTOR,METAL GLAZED(CHIP)	1.8K OHM 1 / 16 W 1608 5.00% D	
		R414	0RH1801C622	RESISTOR,METAL GLAZED(CHIP)	1.8K OHM 1 / 16 W 1608 5.00% D	
		R415	0RH8201C622	RESISTOR,METAL GLAZED(CHIP)	8.2K OHM 1 / 16 W 1608 5.00% D	
		R416	0RH1801C622	RESISTOR,METAL GLAZED(CHIP)	1.8K OHM 1 / 16 W 1608 5.00% D	
		R417	0RH4701C622	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R418	0RH8201C622	RESISTOR,METAL GLAZED(CHIP)	8.2K OHM 1 / 16 W 1608 5.00% D	
		R419	0RH8201C622	RESISTOR,METAL GLAZED(CHIP)	8.2K OHM 1 / 16 W 1608 5.00% D	
		R420	0RH1801C622	RESISTOR,METAL GLAZED(CHIP)	1.8K OHM 1 / 16 W 1608 5.00% D	
		R421	0RH3300C622	RESISTOR,METAL GLAZED(CHIP)	330 OHM 1 / 16 W 1608 5.00% D	
		R422	0RH3300C622	RESISTOR,METAL GLAZED(CHIP)	330 OHM 1 / 16 W 1608 5.00% D	
		R423	0RH1001C622	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R424	0RH1001C622	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R425	0RH1001C622	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R426	0RH1001C622	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R427	0RH1001C622	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R501	0RH8201C622	RESISTOR,METAL GLAZED(CHIP)	8.2K OHM 1 / 16 W 1608 5.00% D	
		R502	0RJ7503C677	RESISTOR,METAL GLAZED(CHIP)	750K OHM 1/16 W 5% 1608 R/TP	
		R503	0RH0471C622	RESISTOR,METAL GLAZED(CHIP)	4.7 OHM 1 / 16 W 1608 5.00% D	
		R504	0RH0000C622	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R505	0RH0471C622	RESISTOR,METAL GLAZED(CHIP)	4.7 OHM 1 / 16 W 1608 5.00% D	

S	AL	LOCA. NO.	LG PART NO.	DESCRIPTION	SPECIFICATION	REMARKS
		R506	0RH0471C622	RESISTOR,METAL GLAZED(CHIP)	4.7 OHM 1 / 16 W 1608 5.00% D	
		R507	0RH1501C622	RESISTOR,METAL GLAZED(CHIP)	1.5K OHM 1 / 16 W 1608 5.00% D	
		R508	0RH1003C622	RESISTOR,METAL GLAZED(CHIP)	100K OHM 1 / 16 W 1608 5.00% D	
		R509	0RH0000C622	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R510	0RH0000C622	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R511	0RH1802C622	RESISTOR,METAL GLAZED(CHIP)	18K OHM 1 / 16 W 1608 5.00% D	
		R512	0RH1003C622	RESISTOR,METAL GLAZED(CHIP)	100K OHM 1 / 16 W 1608 5.00% D	
		R513	0RH0000C622	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R515	0RH0332C622	RESISTOR,METAL GLAZED(CHIP)	33 OHM 1 / 16 W 1608 5.00% D	
		R516	0RH0332C622	RESISTOR,METAL GLAZED(CHIP)	33 OHM 1 / 16 W 1608 5.00% D	
		R517	0RH0332C622	RESISTOR,METAL GLAZED(CHIP)	33 OHM 1 / 16 W 1608 5.00% D	
		R518	0RH0332C622	RESISTOR,METAL GLAZED(CHIP)	33 OHM 1 / 16 W 1608 5.00% D	
		R519	0RH0332C622	RESISTOR,METAL GLAZED(CHIP)	33 OHM 1 / 16 W 1608 5.00% D	
		R520	0RH0332C622	RESISTOR,METAL GLAZED(CHIP)	33 OHM 1 / 16 W 1608 5.00% D	
		R521	0RH0332C622	RESISTOR,METAL GLAZED(CHIP)	33 OHM 1 / 16 W 1608 5.00% D	
		R522	0RH0332C622	RESISTOR,METAL GLAZED(CHIP)	33 OHM 1 / 16 W 1608 5.00% D	
		R523	0RH1201C622	RESISTOR,METAL GLAZED(CHIP)	1.2K OHM 1 / 16 W 1608 5.00% D	
		R524	0RH1201C622	RESISTOR,METAL GLAZED(CHIP)	1.2K OHM 1 / 16 W 1608 5.00% D	
		R525	0RH1201C622	RESISTOR,METAL GLAZED(CHIP)	1.2K OHM 1 / 16 W 1608 5.00% D	
		R526	0RH1000C622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R527	0RH4701C622	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R528	0RH1201C622	RESISTOR,METAL GLAZED(CHIP)	1.2K OHM 1 / 16 W 1608 5.00% D	
		R529	0RH0000C622	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R534	0RH1001C622	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R535	0RH1001C622	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R564	0RH1802C622	RESISTOR,METAL GLAZED(CHIP)	18K OHM 1 / 16 W 1608 5.00% D	
		R565	0RH1802C622	RESISTOR,METAL GLAZED(CHIP)	18K OHM 1 / 16 W 1608 5.00% D	
		R566	0RH1002C622	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R567	0RH1002C622	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R570	0RH0000C622	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R573	0RH2200C622	RESISTOR,METAL GLAZED(CHIP)	220 OHM 1 / 16 W 1608 5.00% D	
		R574	0RH2200C622	RESISTOR,METAL GLAZED(CHIP)	220 OHM 1 / 16 W 1608 5.00% D	
		R577	0RH4700C622	RESISTOR,METAL GLAZED(CHIP)	470 OHM 1 / 16 W 1608 5.00% D	
		R578	0RH1000C622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R579	0RH1001C622	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R580	0RH1001C622	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R581	0RH1001C622	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R584	0RH0222C622	RESISTOR,METAL GLAZED(CHIP)	22 OHM 1 / 16 W 1608 5.00% D	
		R585	0RH1100C622	RESISTOR,METAL GLAZED(CHIP)	110 OHM 1 / 16 W 1608 5.00% D	
		R586	0RH0752C622	RESISTOR,METAL GLAZED(CHIP)	75 OHM 1 / 16 W 1608 5.00% D	
		R587	0RH1100C622	RESISTOR,METAL GLAZED(CHIP)	110 OHM 1 / 16 W 1608 5.00% D	
		R5A7	0RH1002C622	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R5A9	0RH1001C622	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R5C1	0RH1500C422	RESISTOR,METAL GLAZED(CHIP)	150 OHM 1 / 16 W 1608 1.00% D	
		R5C3	0RH1500C422	RESISTOR,METAL GLAZED(CHIP)	150 OHM 1 / 16 W 1608 1.00% D	
		R5C4	0RH1500C422	RESISTOR,METAL GLAZED(CHIP)	150 OHM 1 / 16 W 1608 1.00% D	
		R5C5	0RH1500C422	RESISTOR,METAL GLAZED(CHIP)	150 OHM 1 / 16 W 1608 1.00% D	
		R5C6	0RH1500C422	RESISTOR,METAL GLAZED(CHIP)	150 OHM 1 / 16 W 1608 1.00% D	
		R5C9	0RH0000C622	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R5E1	0RH0000C622	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R601	0RH0752C622	RESISTOR,METAL GLAZED(CHIP)	75 OHM 1 / 16 W 1608 5.00% D	
		R602	0RH0752C622	RESISTOR,METAL GLAZED(CHIP)	75 OHM 1 / 16 W 1608 5.00% D	
		R603	0RH0752C622	RESISTOR,METAL GLAZED(CHIP)	75 OHM 1 / 16 W 1608 5.00% D	
		R604	0RH0752C622	RESISTOR,METAL GLAZED(CHIP)	75 OHM 1 / 16 W 1608 5.00% D	
		R605	0RH0752C622	RESISTOR,METAL GLAZED(CHIP)	75 OHM 1 / 16 W 1608 5.00% D	

S	AL	LOCA. NO.	LG PART NO.	DESCRIPTION	SPECIFICATION	REMARKS
		R606	0RH0752C622	RESISTOR,METAL GLAZED(CHIP)	75 OHM 1 / 16 W 1608 5.00% D	
		R607	0RH0000C622	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R608	0RH0000C622	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R609	0RH0000C622	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R610	0RH0000C622	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R611	0RH0000C622	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		X501	6202R-BL06C	RESONATOR,CRYSTAL	HC-49/S BUBANG 27MHZ 20PPM 1	
		ZD501	0DZ560009CA	DIODE,ZENER	MTZ5.6B TP ROHM-K	
		ZD501	0DZ562609BB	DIODE,ZENER	UZ-5.6BSB 26MM TP PYUNG CHANG	
*** BOARD ASSEMBLY(VCR) ***						
		A46	3501R-7930R	BOARD ASSEMBLY	VCR V780NSK NA3FLL	
		323	3111R-0089D	CASE ASSEMBLY	PRE-AMP SLIM COMBI	
		BC91	636-004C	FILTER(CIRC),EMC	BEAD CORE BFS3550R2FD8,R T/P	
		BC92	636-004C	FILTER(CIRC),EMC	BEAD CORE BFS3550R2FD8,R T/P	
		C201	0CH1103K562	CAPACITOR,FIXED CERAMIC(Temp.c	0.01UF 50V 10% X7R(X) 1608 R/T	
		C202	0CH1103K562	CAPACITOR,FIXED CERAMIC(Temp.c	0.01UF 50V 10% X7R(X) 1608 R/T	
		C203	0CE1054K638	CAPACITOR,ELECTROLYTIC	1.0M SRA/SS50V M FM5 TP(5)	
		C204	0CE1054K638	CAPACITOR,ELECTROLYTIC	1.0M SRA/SS50V M FM5 TP(5)	
		C205	0CH1104K942	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C206	0CH1103K562	CAPACITOR,FIXED CERAMIC(Temp.c	0.01UF 50V 10% X7R(X) 1608 R/T	
		C207	0CE4744K638	CAPACITOR,ELECTROLYTIC	0.47M SRA 50V M FM5 TP(5)	
		C208	0CH1103K562	CAPACITOR,FIXED CERAMIC(Temp.c	0.01UF 50V 10% X7R(X) 1608 R/T	
		C209	0CH1103K562	CAPACITOR,FIXED CERAMIC(Temp.c	0.01UF 50V 10% X7R(X) 1608 R/T	
		C210	0CE4744K638	CAPACITOR,ELECTROLYTIC	0.47M SRA 50V M FM5 TP(5)	
		C211	0CQ2222K409	CAPACITOR,FIXED FILM	2200PF S 50V 5% PE TP5	
		C212	0CQ2222K409	CAPACITOR,FIXED FILM	2200PF S 50V 5% PE TP5	
		C213	0CE2254K638	CAPACITOR,FIXED ELECTROLYTIC	2.2UF SRA,SS 50V 20% FM5 TP 5	
		C214	0CH1103K562	CAPACITOR,FIXED CERAMIC(Temp.c	0.01UF 50V 10% X7R(X) 1608 R/T	
		C215	0CE4764F638	CAPACITOR,ELECTROLYTIC	47M SRA/SS 16V M FM5 TP(5)	
		C216	0CH1103K562	CAPACITOR,FIXED CERAMIC(Temp.c	0.01UF 50V 10% X7R(X) 1608 R/T	
		C301	0CE1064F638	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	
		C302	0CE2264F638	CAPACITOR,ELECTROLYTIC	22M SRA 16V M FM5 TP(5)	
		C303	0CH1122K562	CAPACITOR,FIXED CERAMIC(Temp.c	1200PF 50V 10% X7R(X) 1608 R/T	
		C304	0CE4764F638	CAPACITOR,ELECTROLYTIC	47M SRA/SS 16V M FM5 TP(5)	
		C305	0CH1103K512	CAPA,CHIP CERAMIC M/L H.D F/S	0.0100UF 50V K B 1608 R/TP	
		C306	0CH1122K562	CAPACITOR,FIXED CERAMIC(Temp.c	1200PF 50V 10% X7R(X) 1608 R/T	
		C307	0CE1054K638	CAPACITOR,ELECTROLYTIC	1.0M SRA/SS50V M FM5 TP(5)	
		C308	0CH1153K562	CAPACITOR,FIXED CERAMIC(Temp.c	0.015UF 50V 10% X7R(X) 1608 R/	
		C309	0CH4221K412	CAPACITOR,CHIP[CERAMIC M/L TC	220P 50V J COG 1.6X0.8 R/TP	
		C310	0CH1103K512	CAPA,CHIP CERAMIC M/L H.D F/S	0.0100UF 50V K B 1608 R/TP	
		C311	0CE4765K618	CAPACITOR,AL.ELECTROLYTIC	47UF SR,SV 50V M FL TP 5	
		C312	0CH1103K512	CAPA,CHIP CERAMIC M/L H.D F/S	0.0100UF 50V K B 1608 R/TP	
		C313	0CQ2232L559	CAPACITOR,POLYESTER	0.022UF S 63V K PP NI TP5	
		C314	0CE1064F638	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	
		C315	0CE2254K638	CAPACITOR,FIXED ELECTROLYTIC	2.2UF SRA,SS 50V 20% FM5 TP 5	
		C316	0CE1064F638	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	
		C317	0CH1103K512	CAPA,CHIP CERAMIC M/L H.D F/S	0.0100UF 50V K B 1608 R/TP	
		C318	0CE1054K638	CAPACITOR,ELECTROLYTIC	1.0M SRA/SS50V M FM5 TP(5)	
		C319	0CH1103K512	CAPA,CHIP CERAMIC M/L H.D F/S	0.0100UF 50V K B 1608 R/TP	
		C320	0CE1054K638	CAPACITOR,ELECTROLYTIC	1.0M SRA/SS50V M FM5 TP(5)	
		C321	0CH4680K412	CAPACITOR,FIXED CERAMIC(HIGH D	68PF 50V 5% NP0 1608 R/TP	
		C322	0CE1064F638	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	
		C323	0CE1064F638	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	
		C324	0CE4754K638	CAPACITOR,FIXED ELECTROLYTIC	4.7UF SRA,SS 50V 20% FM5 TP 5	
		C325	0CE1064F638	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	

S	AL	LOCA. NO.	LG PART NO.	DESCRIPTION	SPECIFICATION	REMARKS
		C326	0CH1103K512	CAPA,CHIP CERAMIC M/L H.D F/S	0.0100UF 50V K B 1608 R/TP	
		C327	0CE1054K638	CAPACITOR,ELECTROLYTIC	1.0M SRA/SS50V M FM5 TP(5)	
		C328	0CH1103K512	CAPA,CHIP CERAMIC M/L H.D F/S	0.0100UF 50V K B 1608 R/TP	
		C329	0CH1103K512	CAPA,CHIP CERAMIC M/L H.D F/S	0.0100UF 50V K B 1608 R/TP	
		C330	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C331	0CE2264F638	CAPACITOR,ELECTROLYTIC	22M SRA 16V M FM5 TP(5)	
		C333	0CE4764F638	CAPACITOR,ELECTROLYTIC	47M SRA/SS 16V M FM5 TP(5)	
		C334	0CH1103K512	CAPA,CHIP CERAMIC M/L H.D F/S	0.0100UF 50V K B 1608 R/TP	
		C335	0CH1103K512	CAPA,CHIP CERAMIC M/L H.D F/S	0.0100UF 50V K B 1608 R/TP	
		C336	0CE4764F638	CAPACITOR,ELECTROLYTIC	47M SRA/SS 16V M FM5 TP(5)	
		C337	0CE1054K638	CAPACITOR,ELECTROLYTIC	1.0M SRA/SS50V M FM5 TP(5)	
		C338	0CH1473K562	CAPACITOR,CHIP[CERAMIC M/L HD	47000PF 50V K X7R(X) 1608 R/TP	
		C339	0CE1054K638	CAPACITOR,ELECTROLYTIC	1.0M SRA/SS50V M FM5 TP(5)	
		C340	0CH1473K562	CAPACITOR,CHIP[CERAMIC M/L HD	47000PF 50V K X7R(X) 1608 R/TP	
		C341	0CH1223K942	CAPACITOR,CHIP[CERAMIC M/L HD	0.022UF 50V Z Y5V(F) 1508 R/TP	
		C342	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C343	0CH1473K562	CAPACITOR,CHIP[CERAMIC M/L HD	47000PF 50V K X7R(X) 1608 R/TP	
		C345	0CH1563K512	CAPACITOR,FIXED CERAMIC(TEMP.C	0.056UF 50V 10% B(5YP) 1608 R/	
		C346	0CE4764F638	CAPACITOR,ELECTROLYTIC	47M SRA/SS 16V M FM5 TP(5)	
		C347	0CE1054K638	CAPACITOR,ELECTROLYTIC	1.0M SRA/SS50V M FM5 TP(5)	
		C348	0CE1054K638	CAPACITOR,ELECTROLYTIC	1.0M SRA/SS50V M FM5 TP(5)	
		C349	0CE4764F638	CAPACITOR,ELECTROLYTIC	47M SRA/SS 16V M FM5 TP(5)	
		C350	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C351	0CH4221K412	CAPACITOR,CHIP[CERAMIC M/L TC	220P 50V J COG 1.6X0.8 R/TP	
		C353	0CE1054K638	CAPACITOR,ELECTROLYTIC	1.0M SRA/SS50V M FM5 TP(5)	
		C355	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C356	0CE1054K638	CAPACITOR,ELECTROLYTIC	1.0M SRA/SS50V M FM5 TP(5)	
		C357	0CE1054K638	CAPACITOR,ELECTROLYTIC	1.0M SRA/SS50V M FM5 TP(5)	
		C358	0CH4680K412	CAPACITOR,FIXED CERAMIC(HIGH D	68PF 50V 5% NPO 1608 R/TP	
		C359	0CE1054K638	CAPACITOR,ELECTROLYTIC	1.0M SRA/SS50V M FM5 TP(5)	
		C361	0CH1223K942	CAPACITOR,CHIP[CERAMIC M/L HD	0.022UF 50V Z Y5V(F) 1508 R/TP	
		C362	0CE4764F638	CAPACITOR,ELECTROLYTIC	47M SRA/SS 16V M FM5 TP(5)	
		C363	0CH1103K512	CAPA,CHIP CERAMIC M/L H.D F/S	0.0100UF 50V K B 1608 R/TP	
		C366	0CH1103K512	CAPA,CHIP CERAMIC M/L H.D F/S	0.0100UF 50V K B 1608 R/TP	
		C367	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C368	0CH1822K562	CAPACITOR,FIXED CERAMIC(Temp.c	8200PF 50V 10% X7R(X) 1608 R/T	
		C369	0CH4101K412	CHIP CAPA CERAMIC M/L T.C F/S	100P 50V J COG 1.6X0.8 R/TP	
		C370	0CH4820K412	CHIP CAPA CERAMIC M/L T.C F/S	82P 50V J COG 1.6X0.8 R/TP	
		C371	0CH4820K412	CHIP CAPA CERAMIC M/L T.C F/S	82P 50V J COG 1.6X0.8 R/TP	
		C372	0CH4820K412	CHIP CAPA CERAMIC M/L T.C F/S	82P 50V J COG 1.6X0.8 R/TP	
		C374	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C375	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C376	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C377	0CH1104K512	CAPACITOR,FIXED CERAMIC(Temp.c	0.1UF 50V 10% B(5YP) 1608 R/TP	
		C500	0CE4775C638	CAPACITOR,FIXED ELECTROLYTIC	470UF SR,SV 6.3V 20% FM5 TP 5	
		C501	0CH1104K942	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C502	0CE4764F638	CAPACITOR,ELECTROLYTIC	47M SRA/SS 16V M FM5 TP(5)	
		C503	0CE2274C638	CAPACITOR,ELECTROLYTIC	220M SRA 6.3V M FM5 TP(5)	
		C504	0CE2274C638	CAPACITOR,ELECTROLYTIC	220M SRA 6.3V M FM5 TP(5)	
		C505	0CE4764F638	CAPACITOR,ELECTROLYTIC	47M SRA/SS 16V M FM5 TP(5)	
		C506	0CH1223K942	CAPACITOR,CHIP[CERAMIC M/L HD	0.022UF 50V Z Y5V(F) 1508 R/TP	
		C508	0CH1104K942	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C509	0CH4220K412	CAPA,CHIP CERAMIC M/L T.C F/S	22P 50V J COG 1.6X0.8 R/TP	
		C511	0CH1104K942	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C512	0CH1102K512	CAPACITOR,FIXED CERAMIC(TEMP.C	1000PF 50V 10% B(5YP) 1608 R/T	

S	AL	LOCA. NO.	LG PART NO.	DESCRIPTION	SPECIFICATION	REMARKS
		C513	0CH1102K512	CAPACITOR, FIXED CERAMIC(TEMP.C	1000PF 50V 10% B(5YP) 1608 R/T	
		C514	0CH4120K412	CHIP CAPA CERAMIC M/L T.C F/S	12P 50V J COG 1.6X0.8 R/TP	
		C515	0CH4150K412	CAPA,CHIP CERAMIC M/L T.C F/S	15P 50V J COG 1.6X0.8 R/TP	
		C516	0CH1223K942	CAPACITOR,CHIP[CERAMIC M/L HD	0.022UF 50V Z Y5V(F) 1508 R/TP	
		C518	0CH1103K562	CAPACITOR, FIXED CERAMIC(Temp.c	0.01UF 50V 10% X7R(X) 1608 R/T	
		C519	0CH1104K942	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C520	0CH1102K512	CAPACITOR, FIXED CERAMIC(TEMP.C	1000PF 50V 10% B(5YP) 1608 R/T	
		C521	0CH1102K512	CAPACITOR, FIXED CERAMIC(TEMP.C	1000PF 50V 10% B(5YP) 1608 R/T	
		C523	0CE2254K638	CAPACITOR, FIXED ELECTROLYTIC	2.2UF SRA,SS 50V 20% FM5 TP 5	
		C524	0CE4764F638	CAPACITOR, ELECTROLYTIC	47M SRA/SS 16V M FM5 TP(5)	
		C525	0CH1105F942	CAPACITOR, FIXED CERAMIC(Temp.c	1000000PF 16V 80%,-20% Y5V(F)	
		C526	0CE4764J638	CAPACITOR, AL. ELECTROLYTIC	47UF SRA,SS 35V M FM5 TP 5	
		C527	0CH4221K412	CAPACITOR,CHIP[CERAMIC M/L TC	220P 50V J COG 1.6X0.8 R/TP	
		C533	0CH1102K512	CAPACITOR, FIXED CERAMIC(TEMP.C	1000PF 50V 10% B(5YP) 1608 R/T	
		C534	0CE4754K638	CAPACITOR, FIXED ELECTROLYTIC	4.7UF SRA,SS 50V 20% FM5 TP 5	
		C535	0CE4754K638	CAPACITOR, FIXED ELECTROLYTIC	4.7UF SRA,SS 50V 20% FM5 TP 5	
		C543	0CH1222K512	CAPACITOR,CHIP[CERAMIC M/L HD	2200PF 50V K B 1608 R/TP	
		C544	0CH1473H942	CAPA,CHIP CERAMIC M/L H.D F/S	0.0470UF 25V Z Y5V(F) 1608 R/T	
		C545	0CH1333K562	CAPACITOR,CHIP[CERAMIC M/L HD	0.033UF 50V K X7R(X) 1508 R/TP	
		C546	0CE4764J638	CAPACITOR, AL. ELECTROLYTIC	47UF SRA,SS 35V M FM5 TP 5	
		C547	0CH1103K562	CAPACITOR, FIXED CERAMIC(Temp.c	0.01UF 50V 10% X7R(X) 1608 R/T	
		C551	0CH1333K562	CAPACITOR,CHIP[CERAMIC M/L HD	0.033UF 50V K X7R(X) 1508 R/TP	
		C552	0CH1103K562	CAPACITOR, FIXED CERAMIC(Temp.c	0.01UF 50V 10% X7R(X) 1608 R/T	
		C561	0CE2274C638	CAPACITOR, ELECTROLYTIC	220M SRA 6.3V M FM5 TP(5)	
		C564	0CH1102K512	CAPACITOR, FIXED CERAMIC(TEMP.C	1000PF 50V 10% B(5YP) 1608 R/T	
		C567	0CH1102K512	CAPACITOR, FIXED CERAMIC(TEMP.C	1000PF 50V 10% B(5YP) 1608 R/T	
		C570	0CH4150K412	CAPA,CHIP CERAMIC M/L T.C F/S	15P 50V J COG 1.6X0.8 R/TP	
		C571	0CH4150K412	CAPA,CHIP CERAMIC M/L T.C F/S	15P 50V J COG 1.6X0.8 R/TP	
		C575	0CH1102K512	CAPACITOR, FIXED CERAMIC(TEMP.C	1000PF 50V 10% B(5YP) 1608 R/T	
		C576	0CH4270K412	CAPACITOR,CHIP[CERAMIC M/L TC	27PF 50V J NP0 1608 R/TP	
		C577	0CH1223K942	CAPACITOR,CHIP[CERAMIC M/L HD	0.022UF 50V Z Y5V(F) 1508 R/TP	
		C581	0CH1103K562	CAPACITOR, FIXED CERAMIC(Temp.c	0.01UF 50V 10% X7R(X) 1608 R/T	
		C582	0CH1103K562	CAPACITOR, FIXED CERAMIC(Temp.c	0.01UF 50V 10% X7R(X) 1608 R/T	
		C583	0CH1105F942	CAPACITOR, FIXED CERAMIC(Temp.c	1000000PF 16V 80%,-20% Y5V(F)	
		C596	0CH1104K942	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C5A3	0CH1104K942	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C5A4	0CH1103K562	CAPACITOR, FIXED CERAMIC(Temp.c	0.01UF 50V 10% X7R(X) 1608 R/T	
		C5A5	0CE1054K638	CAPACITOR, ELECTROLYTIC	1.0M SRA/SS50V M FM5 TP(5)	
		C5K1	0CH1104K942	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C5L1	0CH1105F942	CAPACITOR, FIXED CERAMIC(Temp.c	1000000PF 16V 80%,-20% Y5V(F)	
		C5L6	0CH1102K512	CAPACITOR, FIXED CERAMIC(TEMP.C	1000PF 50V 10% B(5YP) 1608 R/T	
		C5P1	0CH1103K562	CAPACITOR, FIXED CERAMIC(Temp.c	0.01UF 50V 10% X7R(X) 1608 R/T	
		C5P2	0CH1103K562	CAPACITOR, FIXED CERAMIC(Temp.c	0.01UF 50V 10% X7R(X) 1608 R/T	
		C5S1	0CH4430K416	CAPACITOR, FIXED CERAMIC(High d	43PF 50V J NP0 2012 R/TP	
		C5S3	0CH1223K942	CAPACITOR,CHIP[CERAMIC M/L HD	0.022UF 50V Z Y5V(F) 1508 R/TP	
		C708	0CE4775C638	CAPACITOR, FIXED ELECTROLYTIC	470UF SR,SV 6.3V 20% FM5 TP 5	
		C710	0CE4754K638	CAPACITOR, FIXED ELECTROLYTIC	4.7UF SRA,SS 50V 20% FM5 TP 5	
		C718	0CE4764C638	CAPACITOR, ELECTROLYTIC	47M SRA 6.3V M FM5 TP(5)	
		C719	0CE4764C638	CAPACITOR, ELECTROLYTIC	47M SRA 6.3V M FM5 TP(5)	
		C727	0CE4764C638	CAPACITOR, ELECTROLYTIC	47M SRA 6.3V M FM5 TP(5)	
		C729	0CE3354K638	CAPACITOR, FIXED ELECTROLYTIC	3.3UF SRA,SS 50V 20% FM5 TP 5	
		C732	0CE1064F638	CAPACITOR, ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	
		C751	0CE4764C638	CAPACITOR, ELECTROLYTIC	47M SRA 6.3V M FM5 TP(5)	
		C755	0CE1064F638	CAPACITOR, ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	
		C7S1	0CE3364F638	CAPACITOR, ELECTROLYTIC	33M SRA 16V M FM5 TP(5)	

S	AL	LOCA. NO.	LG PART NO.	DESCRIPTION	SPECIFICATION	REMARKS
		C7S2	0CE1064F638	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	
		C7V1	0CE4764C638	CAPACITOR,ELECTROLYTIC	47M SRA 6.3V M FM5 TP(5)	
		C7V2	0CH1103K512	CAPA,CHIP CERAMIC M/L H.D F/S	0.0100UF 50V K B 1608 R/TP	
		C7V3	0CE1054K638	CAPACITOR,ELECTROLYTIC	1.0M SRA/SS50V M FM5 TP(5)	
		C7V4	0CH1473H942	CAPA,CHIP CERAMIC M/L H.D F/S	0.0470UF 25V Z Y5V(F) 1608 R/T	
		C7V5	0CH1473H942	CAPA,CHIP CERAMIC M/L H.D F/S	0.0470UF 25V Z Y5V(F) 1608 R/T	
		C802	0CH1104K942	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C803	0CH1104K942	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C804	0CH1104K942	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C805	0CH1104K942	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C806	0CE1064F638	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	
		C807	0CE4744K638	CAPACITOR,ELECTROLYTIC	0.47M SRA 50V M FM5 TP(5)	
		C808	0CE1054K638	CAPACITOR,ELECTROLYTIC	1.0M SRA/SS50V M FM5 TP(5)	
		C809	0CE1054K638	CAPACITOR,ELECTROLYTIC	1.0M SRA/SS50V M FM5 TP(5)	
		C810	0CH1105F942	CAPACITOR,FIXED CERAMIC(Temp.c	1000000PF 16V 80%,-20% Y5V(F)	
		C811	0CH1105F942	CAPACITOR,FIXED CERAMIC(Temp.c	1000000PF 16V 80%,-20% Y5V(F)	
		C812	0CE1064F638	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	
		C813	0CH1682K512	CAPACITOR,FIXED CERAMIC(Temp.c	6800PF 50V 10% B(5YP) 1608 R/T	
		C814	0CE4764F638	CAPACITOR,ELECTROLYTIC	47M SRA/SS 16V M FM5 TP(5)	
		C815	0CE1064F638	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	
		C816	0CE1064F638	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	
		C817	0CE1064F638	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	
		C818	0CE4764F638	CAPACITOR,ELECTROLYTIC	47M SRA/SS 16V M FM5 TP(5)	
		C819	0CH1682K512	CAPACITOR,FIXED CERAMIC(Temp.c	6800PF 50V 10% B(5YP) 1608 R/T	
		C820	0CE1064F638	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	
		C821	0CH1103K562	CAPACITOR,FIXED CERAMIC(Temp.c	0.01UF 50V 10% X7R(X) 1608 R/T	
		C822	0CE4764F638	CAPACITOR,ELECTROLYTIC	47M SRA/SS 16V M FM5 TP(5)	
		C823	0CH1104K942	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C824	0CH1103K562	CAPACITOR,FIXED CERAMIC(Temp.c	0.01UF 50V 10% X7R(X) 1608 R/T	
		C825	0CE4764F638	CAPACITOR,ELECTROLYTIC	47M SRA/SS 16V M FM5 TP(5)	
		C826	0CH1103K562	CAPACITOR,FIXED CERAMIC(Temp.c	0.01UF 50V 10% X7R(X) 1608 R/T	
		C828	0CE1054K638	CAPACITOR,ELECTROLYTIC	1.0M SRA/SS50V M FM5 TP(5)	
		C829	0CE1054K638	CAPACITOR,ELECTROLYTIC	1.0M SRA/SS50V M FM5 TP(5)	
		C834	0CE477CF618	CAPACITOR,ELECTROLYTIC	470UF SHL 16V M FL TP5	
		C855	0CH1104K942	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C856	0CH1104K942	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C857	0CH1105F942	CAPACITOR,FIXED CERAMIC(Temp.c	1000000PF 16V 80%,-20% Y5V(F)	
		C859	0CE2264F638	CAPACITOR,ELECTROLYTIC	22M SRA 16V M FM5 TP(5)	
		C860	0CH1105F942	CAPACITOR,FIXED CERAMIC(Temp.c	1000000PF 16V 80%,-20% Y5V(F)	
		C861	0CE1064F638	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	
		C863	0CE4764F638	CAPACITOR,ELECTROLYTIC	47M SRA/SS 16V M FM5 TP(5)	
		C864	0CE1054K638	CAPACITOR,ELECTROLYTIC	1.0M SRA/SS50V M FM5 TP(5)	
		C869	0CE1064F638	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	
		C870	0CH1104K942	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C871	0CH1104K942	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C884	0CH1104K942	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C885	0CH1104K942	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C886	0CE477CF618	CAPACITOR,ELECTROLYTIC	470UF SHL 16V M FL TP5	
		C887	0CE1064F638	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	
		C888	0CE1064F638	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	
		C889	0CH1104K942	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C890	0CH1104K942	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C891	0CH1104K942	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C892	0CH1104K942	CAPACITOR,CHIP[CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C908	0CH1102K512	CAPACITOR,FIXED CERAMIC(TEMP.C	1000PF 50V 10% B(5YP) 1608 R/T	

S	AL	LOCA. NO.	LG PART NO.	DESCRIPTION	SPECIFICATION	REMARKS
		C910	0CH1102K512	CAPACITOR, FIXED CERAMIC(TEMP.C	1000PF 50V 10% B(5YP) 1608 R/T	
		C912	0CH1102K512	CAPACITOR, FIXED CERAMIC(TEMP.C	1000PF 50V 10% B(5YP) 1608 R/T	
		C915	0CH1102K512	CAPACITOR, FIXED CERAMIC(TEMP.C	1000PF 50V 10% B(5YP) 1608 R/T	
		C916	0CH1102K512	CAPACITOR, FIXED CERAMIC(TEMP.C	1000PF 50V 10% B(5YP) 1608 R/T	
		C921	0CH1102K512	CAPACITOR, FIXED CERAMIC(TEMP.C	1000PF 50V 10% B(5YP) 1608 R/T	
		C931	0CE4775C638	CAPACITOR, FIXED ELECTROLYTIC	470UF SR,SV 6.3V 20% FM5 TP 5	
		C932	0CE4775C638	CAPACITOR, FIXED ELECTROLYTIC	470UF SR,SV 6.3V 20% FM5 TP 5	
		C933	0CE4775C638	CAPACITOR, FIXED ELECTROLYTIC	470UF SR,SV 6.3V 20% FM5 TP 5	
		C938	0CH1104K942	CAPACITOR, CHIP(CERAMIC M/L HD	0.1UF 50V Z Y5V(F) 1508 R/TP	
		C943	0CH4101K412	CHIP CAPA CERAMIC M/L T.C F/S	100P 50V J COG 1.6X0.8 R/TP	
		C944	0CH4101K412	CHIP CAPA CERAMIC M/L T.C F/S	100P 50V J COG 1.6X0.8 R/TP	
		CS501	6600M000026	SWITCH,PUSH	MPU12970MLB0 VCR CST IN S/W MI	
		D301	0DD133009AA	DIODE, SWITCHING	1SS133 DETECT, SW TP	
		D502	0DD133009AA	DIODE, SWITCHING	1SS133 DETECT, SW TP	
		D509	0DD133009AA	DIODE, SWITCHING	1SS133 DETECT, SW TP	
		D801	0DD133009AA	DIODE, SWITCHING	1SS133 DETECT, SW TP	
		D802	0DD133009AA	DIODE, SWITCHING	1SS133 DETECT, SW TP	
		D902	0DD133009AA	DIODE, SWITCHING	1SS133 DETECT, SW TP	
		ES501	4931R-0078A	HOLDER ASSEMBLY	END(S)	
		ES502	4931R-0078A	HOLDER ASSEMBLY	END(S)	
		F8A1	6200HJC901A	FILTER(CIRC), EMC	CFI06B1H101MF SAMHWA TP 2-5K	
		F901	6200HJC901A	FILTER(CIRC), EMC	CFI06B1H101MF SAMHWA TP 2-5K	
		F902	6200HJC901A	FILTER(CIRC), EMC	CFI06B1H101MF SAMHWA TP 2-5K	
		F903	6200HJC901A	FILTER(CIRC), EMC	CFI06B1H101MF SAMHWA TP 2-5K	
		FL301	633-032K	COIL, IFT	BIAC OSC, 1CHIP 5V(KS-75M) KWAN	
		IC501	0IMCRHI030B	IC, MICRO CONTROLLER	HD6432197SA27F HITACHI 112PIN	
		IC503	0IAL241600B	IC, ATMEL	AT24C16 - - - -	
		IC503	0ICS241600B	IC, CATALYST	CAT24W16P 8P DIP ST 16K SERIAL	
		IC504	0IKE703100A	IC, KEC	KIA7031P 3P 3.1V RESET(TAPING)	
		IC504	0ISS753100A	IC, SAMSUNG ELECTRONICS	KA7531Z TO-92 TP 3.1V RESET	
		IC505	0IKE704200B	IC, KEC	KIA7042P 3P 4.2V RESET(TAPING)	
		IC751	0IIT341700B	IC, ITT	MSP3417D-QG QFP44 BK NICAM+A2	
		IC751	0IIT341700C	IC, ITT	MSP3417G-QG-B8-V3 44 QFP TRAY	
		IC7V1	0ILNRMN001B	IC, LINEAR	SDA5650X GEG MICRONAS 20PIN SO	
		IC801	0IPH960500A	IC, PHILIPS	TDA9605H QFP44 BK HIFI AMP+HIF	
		IC802	0IPRPMT009A	IC, PERIPHERALS	MM1443XJBE MITSUMI 34PIN SSOP	
		J902	0RH0000C622	RESISTOR, METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		J903	0RH0000C622	RESISTOR, METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		J904	0RH0000C622	RESISTOR, METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		J905	0RH0000C622	RESISTOR, METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		JK902	6612J00025H	JACK, RCA	RCA-1302A-12(5PIN)SILVER YUQIU	
		L201	0LR0102K035	INDUCTOR RADIAL LEAD	10M K 6X6 L5 TP	
		L301	0LR0102J0N5	INDUCTOR, RADIAL LEAD	10UH 5% TP 3X5 TR5	
		L301	0LR0102K0P5	INDUCTOR, RADIAL LEAD	LF7.5N OEL 10UH 10% TP 4.8X4.0	
		L301	0LR0102K0P5	INDUCTOR, RADIAL LEAD	LF7.5N OEL 10UH 10% TP 4.8X4.0	
		L302	0LR1000K035	INDUCTOR RADIAL LEAD	100M K 6X6 L5 TP	
		L303	0LR0102J0N5	INDUCTOR, RADIAL LEAD	10UH 5% TP 3X5 TR5	
		L303	0LR0102K0P5	INDUCTOR, RADIAL LEAD	LF7.5N OEL 10UH 10% TP 4.8X4.0	
		L303	0LR0102K0P5	INDUCTOR, RADIAL LEAD	LF7.5N OEL 10UH 10% TP 4.8X4.0	
		L304	0LR0102J0N5	INDUCTOR, RADIAL LEAD	10UH 5% TP 3X5 TR5	
		L304	0LR0102K0P5	INDUCTOR, RADIAL LEAD	LF7.5N OEL 10UH 10% TP 4.8X4.0	
		L304	0LR0102K0P5	INDUCTOR, RADIAL LEAD	LF7.5N OEL 10UH 10% TP 4.8X4.0	
		L305	0LR1000K035	INDUCTOR RADIAL LEAD	100M K 6X6 L5 TP	
		L306	0LR1000K035	INDUCTOR RADIAL LEAD	100M K 6X6 L5 TP	
		L307	0LR0102J0N5	INDUCTOR, RADIAL LEAD	10UH 5% TP 3X5 TR5	

S	AL	LOCA. NO.	LG PART NO.	DESCRIPTION	SPECIFICATION	REMARKS
		L307	0LR0102K0P5	INDUCTOR,RADIAL LEAD	LF7.5N OEL 10UH 10% TP 4.8X4.0	
		L307	GLR0102K0P5	INDUCTOR,RADIAL LEAD	LF7.5N OEL 10UH 10% TP 4.8X4.0	
		L501	0LA0122K018	INDUCTOR AXIAL LEAD	12M K 2.3X3.4 L5 TP	
		L503	0LR1000J0N5	INDUCTOR,RADIAL LEAD	100UH 5% TP 3X5 TR5	
		L504	0LR0102J0N5	INDUCTOR,RADIAL LEAD	10UH 5% TP 3X5 TR5	
		L504	0LR0102K0P5	INDUCTOR,RADIAL LEAD	LF7.5N OEL 10UH 10% TP 4.8X4.0	
		L505	0LR1000K035	INDUCTOR RADIAL LEAD	100M K 6X6 L5 TP	
		L506	635-027C	INDUCTOR,RADIAL LEAD	EL0405RA SKI150G-3 K-TDK 15UH	
		L5S1	0LA0332K018	INDUCTOR AXIAL LEAD	33M K 2.3X3.4 L5 TP	
		L701	0LR1000K035	INDUCTOR RADIAL LEAD	100M K 6X6 L5 TP	
		L702	0LR0102K035	INDUCTOR RADIAL LEAD	10M K 6X6 L5 TP	
		L704	0LR0102K035	INDUCTOR RADIAL LEAD	10M K 6X6 L5 TP	
		L705	0LR0102K035	INDUCTOR RADIAL LEAD	10M K 6X6 L5 TP	
		L706	874-000T	WIRE COPPER TIN COATED	D=0.6 ROLL	
		L7V1	0LR1000K035	INDUCTOR RADIAL LEAD	100M K 6X6 L5 TP	
		L801	0LR1000K035	INDUCTOR RADIAL LEAD	100M K 6X6 L5 TP	
		L803	0LR1000K035	INDUCTOR RADIAL LEAD	100M K 6X6 L5 TP	
		L901	0LA1000K018	INDUCTOR AXIAL LEAD	100M K 2.3X3.4 L5 TP	
		L902	0LA1000K018	INDUCTOR AXIAL LEAD	100M K 2.3X3.4 L5 TP	
		L903	0LA1000K018	INDUCTOR AXIAL LEAD	100M K 2.3X3.4 L5 TP	
		L904	0LA1000K018	INDUCTOR AXIAL LEAD	100M K 2.3X3.4 L5 TP	
		L905	0LA1000K018	INDUCTOR AXIAL LEAD	100M K 2.3X3.4 L5 TP	
		L906	0LA1000K018	INDUCTOR AXIAL LEAD	100M K 2.3X3.4 L5 TP	
		L907	0LA1000K018	INDUCTOR AXIAL LEAD	100M K 2.3X3.4 L5 TP	
		L908	0LA1000K018	INDUCTOR AXIAL LEAD	100M K 2.3X3.4 L5 TP	
		L909	0LA1000K018	INDUCTOR AXIAL LEAD	100M K 2.3X3.4 L5 TP	
		L910	0LA1000K018	INDUCTOR AXIAL LEAD	100M K 2.3X3.4 L5 TP	
		L911	0LCCE00004L	INDUCTOR,CHIP	1UH , CHIP2012 CERATECH R/TP	
		L912	0LCCE00004L	INDUCTOR,CHIP	1UH , CHIP2012 CERATECH R/TP	
		L913	0LCCE00004L	INDUCTOR,CHIP	1UH , CHIP2012 CERATECH R/TP	
		L916	0LCCE00004E	INDUCTOR,CHIP	10UH, CHIP2012 CERATECH R/TP	
		L917	0LCCE00004E	INDUCTOR,CHIP	10UH, CHIP2012 CERATECH R/TP	
		LD501	4931R-0077A	HOLDER ASSEMBLY	LED(S)	
		MS501	6600JR3002B	SWITCH,MODE	SSS-51MD-2 SLIM MODE SWICH SH	
		Q301	0TR387509AC	TRANSISTOR	CHIP KTC3875S-GR-T1(ALG) KEC	
		Q302	0TR150409AC	TRANSISTOR	KTA1504-GR-T1(ASG) CHIP KEC	
		Q303	0TR387509AC	TRANSISTOR	CHIP KTC3875S-GR-T1(ALG) KEC	
		Q304	0TR387509AC	TRANSISTOR	CHIP KTC3875S-GR-T1(ALG) KEC	
		Q305	0TR150409AC	TRANSISTOR	KTA1504-GR-T1(ASG) CHIP KEC	
		Q306	0TR534409AA	TRANSISTOR	2SC5344Y TP	
		Q306	0TR320309AA	TRANSISTOR,BIPOLARS	KTC3203 KEC TP TO92 50V 150MA	
		Q308	0TR150409AC	TRANSISTOR	KTA1504-GR-T1(ASG) CHIP KEC	
		Q309	0TR150409AC	TRANSISTOR	KTA1504-GR-T1(ASG) CHIP KEC	
		Q501	0TR387509AC	TRANSISTOR	CHIP KTC3875S-GR-T1(ALG) KEC	
		Q502	0TR387509AC	TRANSISTOR	CHIP KTC3875S-GR-T1(ALG) KEC	
		Q503	0TR127309AA	TRANSISTOR	KTA1273-TP-Y (KTA966A)KEC	
		Q504	0TR387509AC	TRANSISTOR	CHIP KTC3875S-GR-T1(ALG) KEC	
		Q514	0TR103009AA	TRANSISTOR	CHIP KRC103S-T1(NC)22-22 KEC	
		Q515	0TR103009AA	TRANSISTOR	CHIP KRC103S-T1(NC)22-22 KEC	
		Q5S1	0TR387509AC	TRANSISTOR	CHIP KTC3875S-GR-T1(ALG) KEC	
		Q705	0TR127309AA	TRANSISTOR	KTA1273-TP-Y (KTA966A)KEC	
		Q801	0TR387509AC	TRANSISTOR	CHIP KTC3875S-GR-T1(ALG) KEC	
		Q802	0TR387509AC	TRANSISTOR	CHIP KTC3875S-GR-T1(ALG) KEC	
		Q803	0TR387509AC	TRANSISTOR	CHIP KTC3875S-GR-T1(ALG) KEC	
		Q804	0TR150409AC	TRANSISTOR	KTA1504-GR-T1(ASG) CHIP KEC	

S	AL	LOCA. NO.	LG PART NO.	DESCRIPTION	SPECIFICATION	REMARKS
		Q901	0TR387509AC	TRANSISTOR	CHIP KTC3875S-GR-T1(ALG) KEC	
		Q902	0TR387509AC	TRANSISTOR	CHIP KTC3875S-GR-T1(ALG) KEC	
		Q903	0TR387509AC	TRANSISTOR	CHIP KTC3875S-GR-T1(ALG) KEC	
		R201	0RH1001C622	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R202	0RH1203C622	RESISTOR,METAL GLAZED(CHIP)	120K OHM 1 / 16 W 1608 5.00% D	
		R203	0RH2204C622	RESISTOR,METAL GLAZED(CHIP)	2.2M OHM 1 / 16 W 1608 5.00% D	
		R204	0RH4702C622	RESISTOR,METAL GLAZED(CHIP)	47K OHM 1 / 16 W 1608 5.00% D	
		R301	0RH5602C622	RESISTOR,METAL GLAZED(CHIP)	56K OHM 1 / 16 W 1608 5.00% D	
		R302	0RH1002C622	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R303	0RH1802C622	RESISTOR,METAL GLAZED(CHIP)	18K OHM 1 / 16 W 1608 5.00% D	
		R304	0RH1002C622	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R305	0RH1002C622	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R306	0RH2202C622	RESISTOR,METAL GLAZED(CHIP)	22K OHM 1 / 16 W 1608 5.00% D	
		R307	0RH2201C622	RESISTOR,METAL GLAZED(CHIP)	2.2K OHM 1 / 16 W 1608 5.00% D	
		R308	0RH4701C622	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R309	0RH1001C622	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R310	0RH4701C622	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R311	0RH1001C622	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R312	0RH6802C622	RESISTOR,METAL GLAZED(CHIP)	68K OHM 1 / 16 W 1608 5.00% D	
		R313	0RH0221C622	RESISTOR,METAL GLAZED(CHIP)	2.2 OHM 1 / 16 W 1608 5.00% D	
		R314	0RH1001C622	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R315	0RH0472C622	RESISTOR,METAL GLAZED(CHIP)	47 OHM 1 / 16 W 1608 5.00% D	
		R316	0RH1000C622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R317	0RH5601C622	RESISTOR,METAL GLAZED(CHIP)	5.6K OHM 1 / 16 W 1608 5.00% D	
		R318	0RH3901C622	RESISTOR,METAL GLAZED(CHIP)	3.9K OHM 1 / 16 W 1608 5.00% D	
		R319	0RH5600C622	RESISTOR,METAL GLAZED(CHIP)	560 OHM 1 / 16 W 1608 5.00% D	
		R320	0RH1500C622	RESISTOR,METAL GLAZED(CHIP)	150 OHM 1 / 16 W 1608 5.00% D	
		R321	0RH1201C622	RESISTOR,METAL GLAZED(CHIP)	1.2K OHM 1 / 16 W 1608 5.00% D	
		R322	0RH1001C622	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R324	0RH3303C622	RESISTOR,METAL GLAZED(CHIP)	330K OHM 1 / 16 W 1608 5.00% D	
		R325	0RH4700C622	RESISTOR,METAL GLAZED(CHIP)	470 OHM 1 / 16 W 1608 5.00% D	
		R326	0RH1202C622	RESISTOR,METAL GLAZED(CHIP)	12K OHM 1 / 16 W 1608 5.00% D	
		R327	0RH5601C622	RESISTOR,METAL GLAZED(CHIP)	5.6K OHM 1 / 16 W 1608 5.00% D	
		R328	0RH2700C622	RESISTOR,METAL GLAZED(CHIP)	270 OHM 1 / 16 W 1608 5.00% D	
		R329	0RH1202C622	RESISTOR,METAL GLAZED(CHIP)	12K OHM 1 / 16 W 1608 5.00% D	
		R330	0RH1002C622	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R331	0RH4701C622	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R332	0RH4702C622	RESISTOR,METAL GLAZED(CHIP)	47K OHM 1 / 16 W 1608 5.00% D	
		R333	0RH3901C622	RESISTOR,METAL GLAZED(CHIP)	3.9K OHM 1 / 16 W 1608 5.00% D	
		R334	0RH2701C622	RESISTOR,METAL GLAZED(CHIP)	2.7K OHM 1 / 16 W 1608 5.00% D	
		R335	0RH6801C622	RESISTOR,METAL GLAZED(CHIP)	6.8K OHM 1 / 16 W 1608 5.00% D	
		R336	0RH1003C622	RESISTOR,METAL GLAZED(CHIP)	100K OHM 1 / 16 W 1608 5.00% D	
		R337	0RH2201C622	RESISTOR,METAL GLAZED(CHIP)	2.2K OHM 1 / 16 W 1608 5.00% D	
		R338	0RH2700C622	RESISTOR,METAL GLAZED(CHIP)	270 OHM 1 / 16 W 1608 5.00% D	
		R339	0RH2700C622	RESISTOR,METAL GLAZED(CHIP)	270 OHM 1 / 16 W 1608 5.00% D	
		R340	0RH1802C622	RESISTOR,METAL GLAZED(CHIP)	18K OHM 1 / 16 W 1608 5.00% D	
		R342	0RH3300C622	RESISTOR,METAL GLAZED(CHIP)	330 OHM 1 / 16 W 1608 5.00% D	
		R343	0RH3300C622	RESISTOR,METAL GLAZED(CHIP)	330 OHM 1 / 16 W 1608 5.00% D	
		R344	0RH4700C622	RESISTOR,METAL GLAZED(CHIP)	470 OHM 1 / 16 W 1608 5.00% D	
		R345	0RH4700C622	RESISTOR,METAL GLAZED(CHIP)	470 OHM 1 / 16 W 1608 5.00% D	
		R346	0RH1000C622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R347	0RH1000C622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R348	0RH1504C622	RESISTOR,METAL GLAZED(CHIP)	1.5M OHM 1 / 16 W 1608 5.00% D	
		R349	0RH1801C622	RESISTOR,METAL GLAZED(CHIP)	1.8K OHM 1 / 16 W 1608 5.00% D	
		R350	0RH1002C622	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	

S	AL	LOCA. NO.	LG PART NO.	DESCRIPTION	SPECIFICATION	REMARKS
		R351	0RH8203C622	RESISTOR,METAL GLAZED(CHIP)	820K OHM 1 / 16 W 1608 5.00% D	
		R352	0RH3300C622	RESISTOR,METAL GLAZED(CHIP)	330 OHM 1 / 16 W 1608 5.00% D	
		R353	0RH3300C622	RESISTOR,METAL GLAZED(CHIP)	330 OHM 1 / 16 W 1608 5.00% D	
		R3A2	0RH0000C622	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R501	0RH1000C622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R502	0RH1000C622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R503	0RH4701C622	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R504	0RH1001C622	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R505	0RH1001C622	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R506	0RH0000C622	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R508	0RH3301C622	RESISTOR,METAL GLAZED(CHIP)	3.3K OHM 1 / 16 W 1608 5.00% D	
		R509	0RH1801C622	RESISTOR,METAL GLAZED(CHIP)	1.8K OHM 1 / 16 W 1608 5.00% D	
		R510	0RH2201C622	RESISTOR,METAL GLAZED(CHIP)	2.2K OHM 1 / 16 W 1608 5.00% D	
		R511	0RH1001C622	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R512	0RH1001C622	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R513	0RH1001C622	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R514	0RH1203C622	RESISTOR,METAL GLAZED(CHIP)	120K OHM 1 / 16 W 1608 5.00% D	
		R515	0RH2700C622	RESISTOR,METAL GLAZED(CHIP)	270 OHM 1 / 16 W 1608 5.00% D	
		R516	0RH4703C622	RESISTOR,METAL GLAZED(CHIP)	470K OHM 1 / 16 W 1608 5.00% D	
		R517	0RH4700C622	RESISTOR,METAL GLAZED(CHIP)	470 OHM 1 / 16 W 1608 5.00% D	
		R518	0RH1001C622	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R520	0RH3901C622	RESISTOR,METAL GLAZED(CHIP)	3.9K OHM 1 / 16 W 1608 5.00% D	
		R521	0RH4701C622	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R522	0RH1001C622	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R523	0RH1002C622	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R524	0RH0222C622	RESISTOR,METAL GLAZED(CHIP)	22 OHM 1 / 16 W 1608 5.00% D	
		R525	0RH5601C622	RESISTOR,METAL GLAZED(CHIP)	5.6K OHM 1 / 16 W 1608 5.00% D	
		R526	0RH5601C622	RESISTOR,METAL GLAZED(CHIP)	5.6K OHM 1 / 16 W 1608 5.00% D	
		R527	0RH1001C622	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R528	0RH4701C622	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R529	0RH1002C622	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R530	0RH4701C622	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R531	0RH1002C622	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R535	0RH4703C622	RESISTOR,METAL GLAZED(CHIP)	470K OHM 1 / 16 W 1608 5.00% D	
		R542	0RH2201C622	RESISTOR,METAL GLAZED(CHIP)	2.2K OHM 1 / 16 W 1608 5.00% D	
		R543	0RH1000C622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R544	0RH4701C622	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R545	0RH0000C622	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R546	0RH5601C622	RESISTOR,METAL GLAZED(CHIP)	5.6K OHM 1 / 16 W 1608 5.00% D	
		R547	0RH1202C622	RESISTOR,METAL GLAZED(CHIP)	12K OHM 1 / 16 W 1608 5.00% D	
		R548	0RH1003C622	RESISTOR,METAL GLAZED(CHIP)	100K OHM 1 / 16 W 1608 5.00% D	
		R550	0RH2200C622	RESISTOR,METAL GLAZED(CHIP)	220 OHM 1 / 16 W 1608 5.00% D	
		R553	0RH2200C622	RESISTOR,METAL GLAZED(CHIP)	220 OHM 1 / 16 W 1608 5.00% D	
		R554	0RH3300C622	RESISTOR,METAL GLAZED(CHIP)	330 OHM 1 / 16 W 1608 5.00% D	
		R555	0RH2200C622	RESISTOR,METAL GLAZED(CHIP)	220 OHM 1 / 16 W 1608 5.00% D	
		R556	0RH2202C622	RESISTOR,METAL GLAZED(CHIP)	22K OHM 1 / 16 W 1608 5.00% D	
		R557	0RH2702C622	RESISTOR,METAL GLAZED(CHIP)	27K OHM 1 / 16 W 1608 5.00% D	
		R558	0RH2202C622	RESISTOR,METAL GLAZED(CHIP)	22K OHM 1 / 16 W 1608 5.00% D	
		R559	0RH4701C622	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R560	0RH4701C622	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R561	0RH5600C622	RESISTOR,METAL GLAZED(CHIP)	560 OHM 1 / 16 W 1608 5.00% D	
		R562	0RH5600C622	RESISTOR,METAL GLAZED(CHIP)	560 OHM 1 / 16 W 1608 5.00% D	
		R563	0RH5601C622	RESISTOR,METAL GLAZED(CHIP)	5.6K OHM 1 / 16 W 1608 5.00% D	
		R564	0RH2702C622	RESISTOR,METAL GLAZED(CHIP)	27K OHM 1 / 16 W 1608 5.00% D	
		R566	0RH4701C622	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	

S	AL	LOCA. NO.	LG PART NO.	DESCRIPTION	SPECIFICATION	REMARKS
		R567	0RH1002C622	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R568	0RH6802C622	RESISTOR,METAL GLAZED(CHIP)	68K OHM 1 / 16 W 1608 5.00% D	
		R569	0RH1004C622	RESISTOR,METAL GLAZED(CHIP)	1M OHM 1 / 16 W 1608 5.00% D	
		R570	0RH4701C622	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R575	0RH4701C622	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R576	0RH4701C622	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R577	0RH4701C622	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R578	0RH4701C622	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R579	0RH5602C622	RESISTOR,METAL GLAZED(CHIP)	56K OHM 1 / 16 W 1608 5.00% D	
		R582	0RH1000C622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R583	0RH1002C622	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R589	0RH1004C622	RESISTOR,METAL GLAZED(CHIP)	1M OHM 1 / 16 W 1608 5.00% D	
		R591	0RH1003C622	RESISTOR,METAL GLAZED(CHIP)	100K OHM 1 / 16 W 1608 5.00% D	
		R5A2	0RH1002C622	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R5A3	0RH1002C622	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R5A5	0RH4703C622	RESISTOR,METAL GLAZED(CHIP)	470K OHM 1 / 16 W 1608 5.00% D	
		R5B3	0RH1001C622	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R5B4	0RH1001C622	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R5B5	0RH1000C622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R5C1	0RH1001C622	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R5C5	0RH1001C622	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R5C6	0RH1001C622	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R5C7	0RH1001C622	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R5C9	0RH1002C622	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R5G1	0RH0000C622	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R5G2	0RH0000C622	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R5K6	0RH1000C622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R5K7	0RH1000C622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R5K8	0RH1000C622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R5L1	0RH0000C622	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R5P2	0RH1002C622	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R5P3	0RH1002C622	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R5R8	0RH1001C622	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R5S1	0RH5601C622	RESISTOR,METAL GLAZED(CHIP)	5.6K OHM 1 / 16 W 1608 5.00% D	
		R5S2	0RH3300C622	RESISTOR,METAL GLAZED(CHIP)	330 OHM 1 / 16 W 1608 5.00% D	
		R719	0RH3300C622	RESISTOR,METAL GLAZED(CHIP)	330 OHM 1 / 16 W 1608 5.00% D	
		R7S1	0RH2202C622	RESISTOR,METAL GLAZED(CHIP)	22K OHM 1 / 16 W 1608 5.00% D	
		R7V1	0RH1004C622	RESISTOR,METAL GLAZED(CHIP)	1M OHM 1 / 16 W 1608 5.00% D	
		R7V2	0RH1003C622	RESISTOR,METAL GLAZED(CHIP)	100K OHM 1 / 16 W 1608 5.00% D	
		R7V3	0RH6801C622	RESISTOR,METAL GLAZED(CHIP)	6.8K OHM 1 / 16 W 1608 5.00% D	
		R7V4	0RH5603C622	RESISTOR,METAL GLAZED(CHIP)	560K OHM 1 / 16 W 1608 5.00% D	
		R7V5	0RH6801C622	RESISTOR,METAL GLAZED(CHIP)	6.8K OHM 1 / 16 W 1608 5.00% D	
		R7V6	0RH5603C622	RESISTOR,METAL GLAZED(CHIP)	560K OHM 1 / 16 W 1608 5.00% D	
		R7V7	0RH4701C622	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R7V8	0RH1000C622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R7V9	0RH1000C622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R801	0RH3304C622	RESISTOR,METAL GLAZED(CHIP)	3.3M OHM 1 / 16 W 1608 5.00% D	
		R802	0RH3302C622	RESISTOR,METAL GLAZED(CHIP)	33K OHM 1 / 16 W 1608 5.00% D	
		R803	0RH2701C622	RESISTOR,METAL GLAZED(CHIP)	2.7K OHM 1 / 16 W 1608 5.00% D	
		R804	0RH3902C622	RESISTOR,METAL GLAZED(CHIP)	39K OHM 1 / 16 W 1608 5.00% D	
		R805	0RH2701C622	RESISTOR,METAL GLAZED(CHIP)	2.7K OHM 1 / 16 W 1608 5.00% D	
		R806	0RH3302C622	RESISTOR,METAL GLAZED(CHIP)	33K OHM 1 / 16 W 1608 5.00% D	
		R807	0RH4700C622	RESISTOR,METAL GLAZED(CHIP)	470 OHM 1 / 16 W 1608 5.00% D	
		R808	0RH1002C622	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R809	0RH1802C622	RESISTOR,METAL GLAZED(CHIP)	18K OHM 1 / 16 W 1608 5.00% D	

S	AL	LOCA. NO.	LG PART NO.	DESCRIPTION	SPECIFICATION	REMARKS
		R810	0RH1000C622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R811	0RH1000C622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R812	0RH1001C622	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R821	0RH2201C622	RESISTOR,METAL GLAZED(CHIP)	2.2K OHM 1 / 16 W 1608 5.00% D	
		R822	0RH1003C622	RESISTOR,METAL GLAZED(CHIP)	100K OHM 1 / 16 W 1608 5.00% D	
		R823	0RH2201C622	RESISTOR,METAL GLAZED(CHIP)	2.2K OHM 1 / 16 W 1608 5.00% D	
		R824	0RH1003C622	RESISTOR,METAL GLAZED(CHIP)	100K OHM 1 / 16 W 1608 5.00% D	
		R825	0RH5600C622	RESISTOR,METAL GLAZED(CHIP)	560 OHM 1 / 16 W 1608 5.00% D	
		R826	0RH5600C622	RESISTOR,METAL GLAZED(CHIP)	560 OHM 1 / 16 W 1608 5.00% D	
		R835	0RH0752C622	RESISTOR,METAL GLAZED(CHIP)	75 OHM 1 / 16 W 1608 5.00% D	
		R841	0RH3300C622	RESISTOR,METAL GLAZED(CHIP)	330 OHM 1 / 16 W 1608 5.00% D	
		R842	0RH3300C622	RESISTOR,METAL GLAZED(CHIP)	330 OHM 1 / 16 W 1608 5.00% D	
		R850	0RH1000C622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R851	0RH1000C622	RESISTOR,METAL GLAZED(CHIP)	100 OHM 1 / 16 W 1608 5.00% D	
		R861	0RH4701C622	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R862	0RH4701C622	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R863	0RH4701C622	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R864	0RH4701C622	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R865	0RH4701C622	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R874	0RH0752C622	RESISTOR,METAL GLAZED(CHIP)	75 OHM 1 / 16 W 1608 5.00% D	
		R875	0RH4701C622	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R876	0RH4701C622	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R890	0RH0752C622	RESISTOR,METAL GLAZED(CHIP)	75 OHM 1 / 16 W 1608 5.00% D	
		R891	0RH4701C622	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R892	0RH4701C622	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R901	0RH1202C622	RESISTOR,METAL GLAZED(CHIP)	12K OHM 1 / 16 W 1608 5.00% D	
		R902	0RH1002C622	RESISTOR,METAL GLAZED(CHIP)	10K OHM 1 / 16 W 1608 5.00% D	
		R903	0RH0752C622	RESISTOR,METAL GLAZED(CHIP)	75 OHM 1 / 16 W 1608 5.00% D	
		R904	0RH5600C622	RESISTOR,METAL GLAZED(CHIP)	560 OHM 1 / 16 W 1608 5.00% D	
		R905	0RH5600C622	RESISTOR,METAL GLAZED(CHIP)	560 OHM 1 / 16 W 1608 5.00% D	
		R906	0RH5600C622	RESISTOR,METAL GLAZED(CHIP)	560 OHM 1 / 16 W 1608 5.00% D	
		R907	0RH5600C622	RESISTOR,METAL GLAZED(CHIP)	560 OHM 1 / 16 W 1608 5.00% D	
		R908	0RH0000C622	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R909	0RH0000C622	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R910	0RH0000C622	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R911	0RH1001C622	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R913	0RH0752C622	RESISTOR,METAL GLAZED(CHIP)	75 OHM 1 / 16 W 1608 5.00% D	
		R914	0RH0752C622	RESISTOR,METAL GLAZED(CHIP)	75 OHM 1 / 16 W 1608 5.00% D	
		R915	0RH0000C622	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R919	0RH4701C622	RESISTOR,METAL GLAZED(CHIP)	4.7K OHM 1 / 16 W 1608 5.00% D	
		R920	0RH6800C622	RESISTOR,METAL GLAZED(CHIP)	680 OHM 1 / 16 W 1608 5.00% D	
		R927	0RH1001C622	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		R928	0RH0000C622	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R929	0RH0000C622	RESISTOR,METAL GLAZED(CHIP)	0 OHM 1 / 16 W 1608 5.00% D	
		R930	0RH1001C622	RESISTOR,METAL GLAZED(CHIP)	1K OHM 1 / 16 W 1608 5.00% D	
		RS501	6500RAB008A	SENSOR	KIT-3001A REEL SENSOR KODENSHI	
		RS502	6500RAB008A	SENSOR	KIT-3001A REEL SENSOR KODENSHI	
		SC901	6620RM0002J	JACK,SCART	DSAM-0121 DOOWON 2F-21P(BL-BK)	
		TU701	6700PFG04A	TUNER	TCPL0601PD23C(SECAM,SS) SS PAL	
		TU701	6700PFPL06A	TUNER	TADC-S401D(SECAM,LGIT) LG INOT	
		X301	6202R2443AE	RESONATOR,CRYSTAL	HC49U SSANG TAE 4433709HZ 1	
		X301	6202R2443AC	RESONATOR,CRYSTAL	HC49U BUBANG 4-433709MHZ 15P	
		X301	6202R2443AG	RESONATOR,CRYSTAL	HC49U SSANGTAE 4-433709MHZ 1	
		X501	6212AA2100C	RESONATOR,CRYSTAL	HC-49S BUBANG 10MHZ +/- 30 PPM	
		X501	6202R31001F	RESONATOR,CRYSTAL	HC-49S KEUMSEOK 10-0000MHZ 30P	

S	AL	LOCA. NO.	LG PART NO.	DESCRIPTION	SPECIFICATION	REMARKS
		X502	6202R-DA01B	RESONATOR,CRYSTAL	CFS-308 CITIZEN 32.768KHZ +/-	
		X502	6212AC2327E	RESONATOR,CRYSTAL	C-001R SEIKO EPSON 32.768 KHZ	
		X751	529-021Q	RESONATOR,CRYSTAL	49U BUBANG 18432000HZ 30PPM 16	
		X751	6212AA2184F	RESONATOR,CRYSTAL	HC-49U KYUNGIL 18.432MHZ +/- 3	
*** PWB(PCB) ASSEMBLY , TOTAL POWER ***						
		A48	6871R-7731A	PWB(PCB) ASSEMBLY,TOTAL	2003 COMBI PAL(DI) SLIM SMPS	
		BD01	636-004C	FILTER(CIRC),EMC	BEAD CORE BFS3550R2FD8,R T/P	
		BD101	0DD160000DA	DIODE	S1WBA60(1A 600V) SHIDENKEN	
		C101	624-088L	CAPACITOR,DRAWING	435D SUNIL ELECTRONICS 0.1UF/2	
		C102	624-088L	CAPACITOR,DRAWING	435D SUNIL ELECTRONICS 0.1UF/2	
		C103	624-082C	CAPACITOR,AL.ELECTROLYTIC	100MF/400V SHL SMPS S/Y	
		C104	0CQ2232K409	CAPACITOR,FIXED FILM	0.022UF S 50V J PE TP	
		C105	0CQ1031Y519	CAPACITOR,POLYESTER	0.01UF D 630V K PE NI TP	
		C106	624-087B	CAPACITOR	HIGH-VOL 100P/1KV SMPS SAMHWA	
		C109	0CE1066K618	CAPACITOR,ELECTROLYTIC	10M SMS 50V M FM5 TP(5)	
		C110	0CG1020U630	CAPACITOR,SEMI CERAMIC	1000PF 400V M E(Z5U) R	
		C111	0CG2220U630	CAPACITOR,SEMI CERAMIC	2200 PF 400V M E R (NK,AD,SD)	
		C112	0CN223AK948	CAPACITOR,TUBULAR(HIGH DIELEC)	0.022UF 50V Z F TA26 S	
		C117	0CE337EK630	CAPACITOR,AL.ELECTROLYTIC	330UF KMG 50V M FM5 BULK	
		C121	0CE2276F638	CAPACITOR,ELECTROLYTIC	220U SMS 16V M FM5 TP(5)	
		C123	0CE477BH630	CAPACITOR,AL.ELECTROLYTIC	470UF KME TYPE 25V M FM5 BULK	
		C126	0CE2276H638	CAPACITOR,FIXED ELECTROLYTIC	220UF SMS,SG 25V 20% FM5 TP 5	
		C127	0CE108BF630	CAPACITOR,FIXED ELECTROLYTIC	1000UF KME 16V M FM5 BULK	
		C128	0CE3376D638	CAPACITOR,ELECTROLYTIC	330UF SMS 10V M FM5 TP5	
		C129	0CE228BF630	CAPACITOR,FIXED ELECTROLYTIC	2200UF KME TYPE 16V 20% FM5 BU	
		C130	624-085D	CAPACITOR	CE 47UF/50V KME (SMPS)	
		C131	624-082H	CAPACITOR	CE 1000UF/10V SHL(10*12.5)T/P	
		C132	624-085D	CAPACITOR	CE 47UF/50V KME (SMPS)	
		C133	0CQ1042K409	CAPACITOR,FIXED FILM	0.1UF S 50V J PE TP	
		C135	0CN4710K518	CAPACITOR TUBULA(HIGH DIELE)	470P 50V K B TA26	
		C151	0CE4754K638	CAPACITOR,FIXED ELECTROLYTIC	4.7UF SRA,SS 50V 20% FM5 TP 5	
		C152	0CE4754K638	CAPACITOR,FIXED ELECTROLYTIC	4.7UF SRA,SS 50V 20% FM5 TP 5	
		C153	0CE1064F638	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	
		C154	0CE1074F638	CAPACITOR,ELECTROLYTIC	100U SRA 16V M FM5 TP(5)	
		C155	0CE1064F638	CAPACITOR,ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	
		C156	0CE4754K638	CAPACITOR,FIXED ELECTROLYTIC	4.7UF SRA,SS 50V 20% FM5 TP 5	
		C161	0CE4763F638	CAPACITOR,ELECTROLYTIC	47M SRE 16V M FM5 TP(5)	
		C163	624-087H	CAPACITOR	HIGH-VOL 220PF/1KV CERAMIC	
		D101	0DD010009CA	DIODE,RECTIFIER	EG01CW(R-FORM 5MM) TP SANKEN	
		D101	0DD221009AA	DIODE,RECTIFIERS	ERA22-10 KFLB,TP ,R T/P,FUJI	
		D102	0DD010009AC	DIODE	EU01W(R-FORM) TP SANKEN	
		D103	0DD133009AA	DIODE,SWITCHING	1SS133 DETECT,SW TP	
		D106	0DD010009AC	DIODE	EU01W(R-FORM) TP SANKEN	
		D107	0DR104009BA	DIODE,RECTIFIER	RL104F TP RECTRON NON 400V 1A	
		D108	0DD010009AC	DIODE	EU01W(R-FORM) TP SANKEN	
		D110	0DR302000AB	DIODE,RECTIFIER	HER302 BK RECTRON DO201AD 100V	
		D111	0DR158220AA	DIODE,RECTIFIER	1N5822 BK RECTRON DO201AD 40V	
		D113	0DR104009BA	DIODE,RECTIFIER	RL104F TP RECTRON NON 400V 1A	
		D114	0DR104009AB	DIODE,RECTIFIER	RL104 R. TP GULF SEMICONDUCTOR	
		D115	0DR104009AB	DIODE,RECTIFIER	RL104 R. TP GULF SEMICONDUCTOR	
		D116	0DR104009AB	DIODE,RECTIFIER	RL104 R. TP GULF SEMICONDUCTOR	
		D117	0DR104009AB	DIODE,RECTIFIER	RL104 R. TP GULF SEMICONDUCTOR	
		D118	0DR104510AA	DIODE,RECTIFIERS	B10A45V1 BK KEC TO220 45V 10A	
		D121	0DD133009AA	DIODE,SWITCHING	1SS133 DETECT,SW TP	
		F101	0FS1601B51D	FUSE,SLOW BLOW	1600MA 250 V 5.2X20 CY/GL KS/J	

S	AL	LOCA. NO.	LG PART NO.	DESCRIPTION	SPECIFICATION	REMARKS
⚠		F101	585-011T	FUSE,SLOW BLOW	1600MA 250 V 5.2X20 CY/GL SEMK	
		F102	GIRH200000B	IC,ROHM	ICP-N20 T104 TP IC DETACT	
		FH01	586-008B	HOLDER	FUSE CLIP TP SINSUNG	
		FH02	586-008B	HOLDER	FUSE CLIP TP SINSUNG	
⚠		IC101	4811R-0014B	BRACKET ASSEMBLY	VCR SANKEN 6351(R:6352) BRACKE	
⚠		IC101	0IPMGSK002A	IC,POWER MANAGEMENT	STR-G6352T SANKEN 5PIN TO220 S	
⚠		IC101	0IPMGSK001A	IC,POWER MANAGEMENT	STR-G6351L SANKEN 5PIN TO220 S	
⚠		IC102	657-063A	SENSOR	LTV-817B,PHOTO COUPLER(LITEON)	
		IC103	0IKE431000A	IC,KEC	KIA431 3 PIN TP	
		IC151	0IPMGJR007A	IC,POWER MANAGEMENT	NJM2396F08 JRC 4PIN TO-220 ST	
		IC151	0IPMGSH009A	IC,POWER MANAGEMENT	PQ08RD1L SHARP 4PIN TO-220 ST	
		IC151	0IPMGFA016A	IC,POWER MANAGEMENT	KA78R08TSTU FAIRCHILD 4P TO-22	
		IC152	0IPMGFA046A	IC,POWER MANAGEMENT	KA278R33TSTU FAIRCHILD 4PIN TO	
		IC152	0IPMGKE022B	IC,POWER MANAGEMENT	KIA278R33PI-CU KEC 4PIN TO-220	
⚠		L102	616-145G	FILTER(CIRC),DRAWING	SHT LFSQ2215V4-04220	
		L122	633-088G	COIL,CHOKE	CHOCK(22MH) 5MM TOKO TP	
		L123	633-088G	COIL,CHOKE	CHOCK(22MH) 5MM TOKO TP	
		L125	633-088D	COIL,CHOKE	CHOCK ,20UH KWANGSUNG LEAD CU	
		Q153	0TR220309AF	TRANSISTOR	SRA2203 TP AUK TO92 22K,22K	
		Q154	0TR534309BA	TRANSISTOR	2SC5343-L TP AUK TO92	
		Q155	0TR141409AA	TRANSISTOR	KTD1414(TO220IS) CUTING TP KEC	
		Q156	0TR534409AA	TRANSISTOR	2SC5344Y TP	
		Q156	0TR320509AB	TRANSISTOR	KTC3205-TP-Y (KTC2236A)KEC	
		Q160	0TR115100AC	TRANSISTOR,BIPOLARS	KTB1151-Y BK KEC TO126 -	
		Q160	0TR115100AA	TRANSISTOR	KSB1151-Y BK SAMSUNG TO-126	
		Q161	0TR126809BA	TRANSISTOR,BIPOLARS	KTA1268-BL TP KEC	
		Q162	0TR534309BA	TRANSISTOR	2SC5343-L TP AUK TO92	
		R100	0RD1504H632	RESISTOR,FIXED CARBON FILM	1.5M OHM 1/2 W 5.00% MF10	
		R101	614-007A	RESISTOR	2.7/2W CEMENT SMPS V	
		R104	0RS5602K619	RESISTOR,FIXED METAL OXIDE FIL	56K OHM 2 W 5.00% TR	
		R105	0RD0472F608	RESISTOR,FIXED CARBON FILM	47 OHM 1/6 W 5% TA26	
		R106	0RD1803F608	RESISTOR,FIXED CARBON FILM	180K OHM 1/6 W 0.05 TA26	
		R107	0RD1803F608	RESISTOR,FIXED CARBON FILM	180K OHM 1/6 W 0.05 TA26	
		R110	0RD4701F608	RESISTOR,FIXED CARBON FILM	4.7K OHM 1/6 W 5% TA26	
		R111	0RD1003F608	RESISTOR,FIXED CARBON FILM	100K OHM 1/6 W 5% TA26	
		R112	0RD2200F608	RESISTOR,FIXED CARBON FILM	220 OHM 1/6 W 5% TA26	
		R113	0RD3901F608	RESISTOR,FIXED CARBON FILM	3.9K OHM 1/6 W 5% TA26	
		R114	0RD1001F608	RESISTOR,FIXED CARBON FILM	1K OHM 1/6 W 5% TA26	
		R115	0RN3301F408	RESISTOR,FIXED METAL FILM	3.3K OHM 1/6 W 1% TA26	
		R116	0RN2701F408	RESISTOR,FIXED METAL FILM	2.7K OHM 1/6 W 1% TA26	
		R117	0RD2700F608	RESISTOR,FIXED CARBON FILM	270 OHM 1/6 W 5% TA26	
		R118	0RD1003F608	RESISTOR,FIXED CARBON FILM	100K OHM 1/6 W 5% TA26	
		R119	0RD1003F608	RESISTOR,FIXED CARBON FILM	100K OHM 1/6 W 5% TA26	
		R124	0RS0350K619	RESISTOR,FIXED METAL OXIDE FIL	0.35 OHM 2 W 5.00% TR	
		R125	0RD4701F608	RESISTOR,FIXED CARBON FILM	4.7K OHM 1/6 W 5% TA26	
		R126	0RD6800F608	RESISTOR,FIXED CARBON FILM	680 OHM 1/6 W 5% TA26	
		R130	0RD1003F608	RESISTOR,FIXED CARBON FILM	100K OHM 1/6 W 5% TA26	
		R131	0RD2202F608	RESISTOR,FIXED CARBON FILM	22K OHM 1/6 W 5% TA26	
		R151	0RD5601F608	RESISTOR,FIXED CARBON FILM	5.6K OHM 1/6 W 5% TA26	
		R152	0RD5601F608	RESISTOR,FIXED CARBON FILM	5.6K OHM 1/6 W 5% TA26	
		R153	0RD4701F608	RESISTOR,FIXED CARBON FILM	4.7K OHM 1/6 W 5% TA26	
		R154	0RD1001F608	RESISTOR,FIXED CARBON FILM	1K OHM 1/6 W 5% TA26	
		R156	0RD1002F608	RESISTOR,FIXED CARBON FILM	10K OHM 1/6 W 5% TA26	
		R157	0RD1001F608	RESISTOR,FIXED CARBON FILM	1K OHM 1/6 W 5% TA26	
		R158	0RD3300F608	RESISTOR,FIXED CARBON FILM	330 OHM 1/6 W 5% TA26	

S	AL	LOCA. NO.	LG PART NO.	DESCRIPTION	SPECIFICATION	REMARKS
		R159	0RD3300F608	RESISTOR, FIXED CARBON FILM	330 OHM 1/6 W 5% TA26	
		R164	0RD4701F608	RESISTOR, FIXED CARBON FILM	4.7K OHM 1/6 W 5% TA26	
		R167	0RD0222F608	RESISTOR, FIXED CARBON FILM	22 OHM 1/6 W 5% TA26	
		R168	0RD0222F608	RESISTOR, FIXED CARBON FILM	22 OHM 1/6 W 5% TA26	
		R170	0RD1002F608	RESISTOR, FIXED CARBON FILM	10K OHM 1/6 W 5% TA26	
		R171	0RD4701F608	RESISTOR, FIXED CARBON FILM	4.7K OHM 1/6 W 5% TA26	
		R172	0RD4701F608	RESISTOR, FIXED CARBON FILM	4.7K OHM 1/6 W 5% TA26	
		R181	0RD1802F608	RESISTOR, FIXED CARBON FILM	18K OHM 1/6 W 5% TA26	
⚠		T101	6170RNGW12F	TRANSFORMER, SMPS[COIL]	EER3534, 580UH SAMWHA/FEELUX C	
⚠		V101	656-004C	VARIATOR, DRAWING	SVC681D-10A SAMHWA 4.0 CUT	
		ZD101	0DZ330009BF	DIODE, ZENER	GDZJ3.3B TP GRANDE DO34 0.5W 3	
		ZD101	0DZ337729AA	DIODE, ZENERS	MTZJ3.3B, T-77(26MMTP) TP ROHM -	
		ZD101	0DZ332609FA	DIODE, ZENER	UZ-3.3BSB 26MM TP PYUNG CHANG	
		ZD101	0DZ330009CD	DIODE, ZENER	MTZJ3.3B TP ROHM-K DO34 0.5W 3	
		ZD103	0DZ130009AA	DIODE, ZENER	MTZ13A TP ROHM-K	
		ZD104	0DZ300000MB	DIODE, ZENERS	UZ-30BSC 26MM PYUNG CHANG TP D	
*** PWB(PCB) ASSEMBLY, TIMER ***						
		A49	6871R-6788A	PWB(PCB) ASSEMBLY, TOTAL	COMBI SLIM TIMER 8TOOL	
		C601	0CE1064F638	CAPACITOR, ELECTROLYTIC	10M SRA 16V M FM5 TP(5)	
		C602	0CE4775C638	CAPACITOR, FIXED ELECTROLYTIC	470UF SR, SV 6.3V 20% FM5 TP 5	
		C603	0CN223AK948	CAPACITOR, TUBULAR(HIGH DIELEC)	0.022UF 50V Z F TA26 S	
		C604	0CN1040K948	CAPACITOR, FIXED TUBULAR(High d	0.1UF D 50V 80%, -20% F(Y5V) TA	
		C606	0CN1040K948	CAPACITOR, FIXED TUBULAR(High d	0.1UF D 50V 80%, -20% F(Y5V) TA	
		C620	0CN1040K948	CAPACITOR, FIXED TUBULAR(High d	0.1UF D 50V 80%, -20% F(Y5V) TA	
		C621	0CN3910K518	CAPACITOR, TUBULAR(HIGH DIELEC)	390P 50V K B TA26	
		C622	0CN3910K518	CAPACITOR, TUBULAR(HIGH DIELEC)	390P 50V K B TA26	
		C623	0CN3910K518	CAPACITOR, TUBULAR(HIGH DIELEC)	390P 50V K B TA26	
		C624	0CN3910K518	CAPACITOR, TUBULAR(HIGH DIELEC)	390P 50V K B TA26	
		C625	0CN3910K518	CAPACITOR, TUBULAR(HIGH DIELEC)	390P 50V K B TA26	
		C626	0CN3910K518	CAPACITOR, TUBULAR(HIGH DIELEC)	390P 50V K B TA26	
		C627	0CN3910K518	CAPACITOR, TUBULAR(HIGH DIELEC)	390P 50V K B TA26	
		C628	0CN3910K518	CAPACITOR, TUBULAR(HIGH DIELEC)	390P 50V K B TA26	
		C629	0CN3910K518	CAPACITOR, TUBULAR(HIGH DIELEC)	390P 50V K B TA26	
		C630	0CN3910K518	CAPACITOR, TUBULAR(HIGH DIELEC)	390P 50V K B TA26	
		C631	0CN3910K518	CAPACITOR, TUBULAR(HIGH DIELEC)	390P 50V K B TA26	
		DIG601	6302R-V211A	DIGITRON	11-ST-79GNK FUTABA SEG VFD COM	
		IC601	0IPRPNE001A	IC, PERIPHERALS	UPD16315GB-3BS NEC 44 QFP BK F	
		L601	0LR8200J025	INDUCTOR, RADIAL LEAD	820UH 5% 4X5 TR5	
		R601	0RD1001F608	RESISTOR, FIXED CARBON FILM	1K OHM 1/6 W 5% TA26	
		R602	0RD1001F608	RESISTOR, FIXED CARBON FILM	1K OHM 1/6 W 5% TA26	
		R603	0RD1001F608	RESISTOR, FIXED CARBON FILM	1K OHM 1/6 W 5% TA26	
		R604	0RD5602F608	RESISTOR, FIXED CARBON FILM	56K OHM 1/6 W 5% TA26	
		R605	0RD3300F608	RESISTOR, FIXED CARBON FILM	330 OHM 1/6 W 5% TA26	
		R606	0RD0471F608	RESISTOR, FIXED CARBON FILM	4.7 OHM 1/6 W 5% TA26	
		R607	0RD0471F608	RESISTOR, FIXED CARBON FILM	4.7 OHM 1/6 W 5% TA26	
		R611	0RD6800F608	RESISTOR, FIXED CARBON FILM	680 OHM 1/6 W 5% TA26	
		R612	0RD8200F608	RESISTOR, FIXED CARBON FILM	820 OHM 1/6 W 5% TA26	
		R613	0RD1201F608	RESISTOR, FIXED CARBON FILM	1.2K OHM 1/6 W 5% TA26	
		R614	0RD1501F608	RESISTOR, FIXED CARBON FILM	1.5K OHM 1/6 W 5% TA26	
		R615	0RD2201F608	RESISTOR, FIXED CARBON FILM	2.2K OHM 1/6 W 5% TA26	
		R616	0RD3301F608	RESISTOR, FIXED CARBON FILM	3.3K OHM 1/6 W 5% TA26	
		R617	0RD4701F608	RESISTOR, FIXED CARBON FILM	4.7K OHM 1/6 W 5% TA26	
		R618	0RD6800F608	RESISTOR, FIXED CARBON FILM	680 OHM 1/6 W 5% TA26	
		RC601	6712R1638GB	REMOTE CONTROLLER RECEIVER	TSOP4438RF1 VISHAY 38KHZ =TSOP	
		RC601	6712R1638GA	REMOTE CONTROLLER RECEIVER	TSOP1838RF1 VISHAY(TEMIC) 37-	

S	AL	LOCA. NO.	LG PART NO.	DESCRIPTION	SPECIFICATION	REMARKS
		SW601	556-282C	SWITCH,TACT	SKQNKED ALPS DC 12 V 50 MA TA	
		SW601	556-219B	SWITCH,TACT	THVV502GAA POSTECH DC 12 V 5-	
		SW602	556-282C	SWITCH,TACT	SKQNKED ALPS DC 12 V 50 MA TA	
		SW602	556-219B	SWITCH,TACT	THVV502GAA POSTECH DC 12 V 5-	
		SW603	556-282C	SWITCH,TACT	SKQNKED ALPS DC 12 V 50 MA TA	
		SW603	556-219B	SWITCH,TACT	THVV502GAA POSTECH DC 12 V 5-	
		SW604	556-282C	SWITCH,TACT	SKQNKED ALPS DC 12 V 50 MA TA	
		SW604	556-219B	SWITCH,TACT	THVV502GAA POSTECH DC 12 V 5-	
		SW605	556-282C	SWITCH,TACT	SKQNKED ALPS DC 12 V 50 MA TA	
		SW605	556-219B	SWITCH,TACT	THVV502GAA POSTECH DC 12 V 5-	
		SW606	556-282C	SWITCH,TACT	SKQNKED ALPS DC 12 V 50 MA TA	
		SW606	556-219B	SWITCH,TACT	THVV502GAA POSTECH DC 12 V 5-	
		SW607	556-282C	SWITCH,TACT	SKQNKED ALPS DC 12 V 50 MA TA	
		SW607	556-219B	SWITCH,TACT	THVV502GAA POSTECH DC 12 V 5-	
		SW608	556-282C	SWITCH,TACT	SKQNKED ALPS DC 12 V 50 MA TA	
		SW608	556-219B	SWITCH,TACT	THVV502GAA POSTECH DC 12 V 5-	
		SW609	556-282C	SWITCH,TACT	SKQNKED ALPS DC 12 V 50 MA TA	
		SW609	556-219B	SWITCH,TACT	THVV502GAA POSTECH DC 12 V 5-	
*** PWB(PCB) ASSEMBLY , KEY ***						
		A42	6871R-6789A	PWB(PCB) ASSEMBLY,TOTAL	COMBI SLIM KEY 8TOOL	
		C613	0CN1020K518	CAPACITOR TUBULA(HIGH DIELE)	1000P 50V K B TA26	
		C614	0CN1020K518	CAPACITOR TUBULA(HIGH DIELE)	1000P 50V K B TA26	
		JK601	6612JH003AC	JACK,RCA	BJP-113D BAE EUN YELLOW	
		JK602	6612JH003AB	JACK,RCA	BJP-113C BAE EUN WHITE	
		JK603	6612JH003AA	JACK,RCA	BJP-113B BAE EUN RED	
		L602	0LA1000K018	INDUCTOR AXIAL LEAD	100M K 2.3X3.4 L5 TP	
		L603	0LA1000K018	INDUCTOR AXIAL LEAD	100M K 2.3X3.4 L5 TP	
		R621	0RD8200F608	RESISTOR,FIXED CARBON FILM	820 OHM 1/6 W 5% TA26	
		R622	0RD1201F608	RESISTOR,FIXED CARBON FILM	1.2K OHM 1/6 W 5% TA26	
		R623	0RD1501F608	RESISTOR,FIXED CARBON FILM	1.5K OHM 1/6 W 5% TA26	
		R624	0RD2201F608	RESISTOR,FIXED CARBON FILM	2.2K OHM 1/6 W 5% TA26	
		R625	0RD3301F608	RESISTOR,FIXED CARBON FILM	3.3K OHM 1/6 W 5% TA26	
		R626	0RD4701F608	RESISTOR,FIXED CARBON FILM	4.7K OHM 1/6 W 5% TA26	
		R641	0RD0752F608	RESISTOR,FIXED CARBON FILM	75 OHM 1/6 W 5.00% TA26	
		SW611	556-219B	SWITCH,TACT	THVV502GAA POSTECH DC 12 V 5-	
		SW612	556-219B	SWITCH,TACT	THVV502GAA POSTECH DC 12 V 5-	
		SW613	556-219B	SWITCH,TACT	THVV502GAA POSTECH DC 12 V 5-	
		SW614	556-219B	SWITCH,TACT	THVV502GAA POSTECH DC 12 V 5-	
		SW615	556-219B	SWITCH,TACT	THVV502GAA POSTECH DC 12 V 5-	
		SW616	556-219B	SWITCH,TACT	THVV502GAA POSTECH DC 12 V 5-	
		SW617	556-219B	SWITCH,TACT	THVV502GAA POSTECH DC 12 V 5-	
*** DECK ASSEMBLY(VCR) ***						
		A00	6721RF0851D	DECK ASSEMBLY,VIDEO	DECK/MECHA D35S(M) DI (4HF, PA	NSP
		A01	6723R-0403F	DRUM(CIRC) ASSEMBLY	DECK/MECHA D35-6CH PAL(8P6S)	
		A04	4811RF0038A	BRACKET ASSEMBLY	L/D(S)	
		A04	4811RF0038B	BRACKET ASSEMBLY	L/D(M) - DI	
		A11	4471R-0005A	GEAR ASSY	P3	
		A12	4471R-0004A	GEAR ASSY	P2	
		A21	4931R-0076A	HOLDER ASSEMBLY	CST(S)	
		A22	4471R-0006A	GEAR ASSY	RACK F/L	
		A23	4261R-0023A	ARM ASSY	F/L	
		A24	4511R-0002A	LEVER ASSEMBLY	SWITCH(S)	
		001	6723R-0306F	DRUM(CIRC) ASSEMBLY	DECK/MECHA SUB D35-6CH (8P6S)	NSP
		002	4680R-B008A	MOTOR(MECH)	DRUM VH4302-800 SANYO FOR D35K	
		002	4680R-B010A	MOTOR(MECH)	DRUM MDVC-035KA LGIT FOR D35K	

S	AL	LOCA. NO.	LG PART NO.	DESCRIPTION	SPECIFICATION	REMARKS
		002	4680R-B009A	MOTOR(MECH)	DRUM I2OAL21 SANKYO FOR D35K	
		002	4680R-B005A	MOTOR(MECH)	DRUM I2OAL05 SEJIN-SANKYO ICLE	
		002	4680R-B003B	MOTOR(MECH)	DRUM VH4301 KUMAGAYA DRUM MOTO	
		002	4680R-B007A	MOTOR(MECH)	DRUM MDVC-035AA LGIT FOR D-35,	
		002A	5202R00002C	BRUSH,CARBON	ASSY D33 (TIP+2 SPRING) 1.4,	
		003	4930R-0376A	HOLDER	DECK/MECHA FPCB(6CH) - D35S, D	
		004	5006R-0042A	CAP	DECK/MECHA FPCB - D35S, D37V O	
		008	6850R-HG18Z	CABLE,FLAT	P=1.25 FFC UL2896(0.05X0.8) 7	
		009	4260R-0045A	ARM	T/UP(D35 SLIM)	
		010	4810R-0125A	BRACKET	CHASSIS	
		011	4261R-0022A	ARM ASSY	TENSION(D35)	
		012	3041R-0037A	BASE ASSY	P2	
		013	3041R-0038A	BASE ASSY	P3	
		014	3041R-0039A	BASE ASSY	P4	
		015	5870R-0005A	OPENER	LID(D35)	
		016	3041R-0036B	BASE ASSEMBLY	A/C HEAD (TDK)	
		016	3041R-0036A	BASE ASSEMBLY	A/C HEAD (ALPS)	
		017	4408R-0003A	REEL	S	
		018	4970R-0140A	SPRING	COIL RS D35	
		019	4421R-0008A	BRAKE ASSEMBLY	RS	
		020	4970R-0128A	SPRING	COIL D35 (TB)	
		021	4421R-0006A	BRAKE ASSY	T	
		022	6520D00003A	HEAD(CIRC)	VAA00000338A TDK FE HEAD FOR S	
		023	3040R-V001A	BASE	LOADING(S) MOLD	
		024	4261R-0024A	ARM ASSEMBLY	IDLER (H)	
		025	4810R-0118A	BRACKET	L/D(S)	NSP
		026	4680R-D002A	MOTOR(MECH)	LOADING MDB2B66 SANKYO D35 ASP	NSP
		027	4470R-0093A	GEAR	DECK/MECHA WHEEL OTHER	NSP
		028	4408R-0004A	REEL	T	
		029	4261R-0019C	ARM ASSEMBLY	DECK/MECHA PINCH	
		029	4261R-0019B	ARM ASSEMBLY	PINCH	
		029	4261R-0019A	ARM ASSEMBLY	DECK/MECHA PINCH	
		029	4261R-0019D	ARM ASSEMBLY	DECK/MECHA PINCH	
		030	4510R-0043A	LEVER	T/UP	
		031	4970R-0123A	SPRING	COIL TENSION(D35)	
		032	3141R-0040B	CHASSIS ASSEMBLY	D35(S)	NSP
		051	4400R-0005A	BELT	CAPSTAN	
		052	4680R-A013A	MOTOR(MECH)	CAPSTAN MCVC-035SA LGIT FOR SL	
		052A	4980R-0023A	SUPPORTER	CAPSTAN(D35)	
		054	4470R-0100A	GEAR	RACK F/L	
		054A	4970R-0124B	SPRING	COIL D35 (RACK F/L)	
		055	4470R-0126A	GEAR	DRIVE(S)	
		056	4470R-0127A	GEAR	CAM(S)	
		058	4421R-0007A	BRAKE ASSY	CAPSTAN	
		060	4510R-0040A	LEVER	F/R(D35)	
		061	4265R-0005A	CLUTCH ASSEMBLY	D35 (M)	
		064	4470R-0098A	GEAR	SECTOR(D35)	
		065	4261R-0021A	ARM ASSY	P3	NSP
		066	4970R-0122A	SPRING	COIL D35	NSP
		067	4470R-0095A	GEAR	P3	NSP
		068	4470R-0094A	GEAR	P2	NSP
		069	4970R-0122A	SPRING	COIL D35	NSP
		070	4261R-0020A	ARM ASSY	P2	NSP
		076	4510R-0047A	LEVER	SPRING	
		077	3300R-M116A	PLATE	SLIDER	

S	AL	LOCA. NO.	LG PART NO.	DESCRIPTION	SPECIFICATION	REMARKS
		078	4510R-0041A	LEVER	TENSION	
		079	3040R-0056A	BASE	TENSION(D35)	
		100	3301R-M192A	PLATE ASSEMBLY	TOP(S)	
		100A	3300R-0184A	PLATE	GND	
		100B	3300R-M196A	PLATE	TOP(S) PRESS SECC 0.8T	
		102	4970R-0130A	SPRING	COIL D35 (STOPPER)	
		103	4930R-0378A	HOLDER	SIDE(S-L)	NSP
		105	4930R-0379A	HOLDER	CST(S)	NSP
		106	4930R-0377A	HOLDER	SIDE(S-R)	NSP
		107	4510R-0044A	LEVER	STOPPER	NSP
		109	5870R-0006A	OPENER	DOOR(S)	
		110	4260R-0035A	ARM	F/L(L)	NSP
		112	3070R-0002A	BODY	F/L	NSP
		113	4970R-0127A	SPRING	COIL D35 (F/L(R))	NSP
		114	4260R-0036A	ARM	F/L(R)	NSP
		115	4510R-0053A	LEVER	SWITCH(S)	
		116	4970R-0163A	SPRING	COIL D35S SWITCH	
		117	3300R-M137A	PLATE	SPRING CST	
		401	1MEC0261518	SCREW MACHINE,PAN HEAD SPR W	D2.6 L4.5 MSWR3/FZY	
		402	1MPC0261418	SCREW MACHINE,PAN HEAD	D 2.6 L 4.0 MSWR3/FZY	
		405	1SZZR-0031B	SCREW,DRAWING	+ 1 D2.6 L5.8 SWRCH16A/FZY TAP	
		406	1MEC0302018	PAN HEAD MACHINE SCREW S/W +	D 3.0 L 6.0 MSWR3/FZY	
		409	1SZZR-0032B	SCREW,DRAWING	+ 1 D2.6 L5.0 SWRCH18A/FZY TAP	
		410	1APF0262218	SCREW TAP TITE(B),PAN HEAD	D2.6 L6.8 MSWR3/FZY	
		517	1WZZR-0004D	WASHER	STOPPER	
		518	1WZZR-0004A	WASHER	STOPPER	